## DOCUMENT RESUME

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ABSTRACT

Each of these newsletters, produced by the ERIC Information Analysis Center for Science, Mathematics, and Environmental Education, Contains information concerning center publications and activities, as well as other items considered of interest to researchers and educators of various educational levels. One of the emphases in Vol. 2, No. 2, is a descriptive listing of materials contained in Pacesetters in Innovation, Fiscal Year 1967. Vol. 2, No. 3 contains a listing of documents related to science and mathematics education included in Research in Education for 1968. (PEB)

# SEIAC

ERIC

DEPARTMENT OF HEALTH
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION
[illegible]

ED 005003

## SUPPLEMENTAL BIBLIOGRAPHIES AVAILABLE FROM SEIAC

The second series of General Bibliographies are now available from the Clearinghouse. Single copies of each are free and may be requested as long as the supply lasts. The bibliographies will appear in Research in Education and will be available on microfiche and in hard copy from the ERIC Document Reproduction Service. The bibliographies are listed below.

1. Bibliography 11, Instructional Procedures
   Supplements Bibliography 1
2. Bibliography 12, Teacher Education
   Supplements Bibliography 2
3. Bibliography 13, Science Equipment and Materials,
   Instructional Materials
   Supplements Bibliography 3
4. Bibliography 14, Curriculum
   Supplements Bibliography 4
5. Bibliography 15, Achievement
   Supplements Bibliography 5
6. Bibliography 16, Teacher Resource Materials
   Supplements Bibliography 6
7. Bibliography 17, Science and Society,
   History of Science Education,
   General Studies and Surveys, Science History
   Supplements Bibliography 7
8. Bibliography 18, Legislative Acts and Reports,
   Science Facilities,
   Administration and Supervision
   Supplements Bibliography 8
9. Bibliography 19, Evaluation,
   Education Objectives,
   Learning Theory and Processes,
   Research Methodology
   Supplements Bibliography 9
10. Bibliography 20, Teacher Characteristics,
    Student Characteristics
    Supplements Bibliography 10

SE 006 949

## TWO CLEARINGHOUSES RECENTLY ESTABLISHED

Two ERIC Clearinghouses have been recently established. The Clearinghouse on Teacher Education will be concerned with general problems of teacher education, including both preservice and inservice preparation of teachers and preparation of teacher educators. Clearinghouses with specific areas, such as SEIAC, will continue to process documents and disseminate information related to their special fields. The new Clearinghouse provides coverage for general concerns and special areas previously not covered. The Clearinghouse is under the direction of Dr. Joel Burdin and located at 1156 15th Street, N. W., Washington, D.C. 20005.

The Clearinghouse on Higher Education will be located at George Washington University in Washington, D.C. It will be concerned with general areas of higher education. Clearinghouses with specific areas will continue to process materials in those areas.

## INFORMATION CONCERNING THE ERIC SYSTEM

The United States Office of Education recently published an extremely useful pamphlet, "How to Use ERIC." The publication provides information concerning what ERIC is, what ERIC does, and how ERIC can be used. Procedures for obtaining ERIC documents and products are detailed. Also included are the addresses of the current ERIC Clearinghouses. You may obtain copies by writing to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The catalog number is FS5.212:12037 and the price is 20 cents each.

## INCREASE IN SUBSCRIPTION RATE

An increase in the price of Research in Education was recently announced by the United States Office of Education. Beginning January 1, 1969 a yearly subscription to Research in Education is $21.00. A foreign subscription is $26.25. Existing subscriptions are not affected until current subscriptions expire.

## SIE INSTITUTES USER CHARGES

The Science Information Exchange (SIE), a part of the Smithsonian Institute , is managed and funded by the National Science Foundation. It maintains a data bank of research in progress in the behavioral sciences. To date all services with the exception of Catalogs have been provided without charge.

However, recent budget modifications and expenditure ceilings have accelerated SIE's move to a policy of user charges. Effective December 1, 1968, all requests from non-Federal agencies and individuals will be provided on a fee-for-service basis while Federal agencies will be charged for only two categories of Requests: Name Requests (Investigator Reports) and Automatic Selective Dissemination.

Effective July 1, 1969, all requests—Federal and non-Federal-will be subject to a service fee. For your convenience Types of Service and Schedules and Service Fees provided by SIE are listed below. SIE services and products range from a single request for a document Notice of Research Project (NRP) - to the preparation of catalogs covering large subject fields.

I. The following products are commonly known as "document retrieval":

*Subject Search Question* involves "subject" requests in which the user asks for all NRPs related to a specified subject or topic. They are comparable to a bibliographic search.

*Investigator Search* is in response to a request for all NRPs associated with a given name (investigator).

*Accession Number Retrieval* is in response to a request for NRPs identified by agency accession (or contract) number or by SIE Accession Number.

*Automatic Distribution* is a service given to Federal agencies and foundations which request automatic return of extra copies of each NRP that they register with the Exchange.

II. The following are compilations of extracted data elements and are not "document-retrieval" per se. These services are primarily used by research or program directors and administrators.

*Standard Computer Tabulation* of Projects are generated by computer using one of a variety of standard computer programs. These tabulations include various combinations of the following data elements: supporting agency, principal investigator, accession number, performing organization, location and title of project.

*Organizational Programs* are generated by computer to the specification of the agency concerned.

*Subject-filed Catalogs* involve the collection and identification of all Notices of Research Projects (NRPs) pertinent and related to a broad subject field. Example: Water Resources Research Catalog.

*Special Compilations* are generated by computer to the specification of the requestor.

SIE Schedules and Service Fees

| | |
|---|---|
| 1. Subject Searches per Question: | $60.00 screened<br>30.00 unscreened |
| 2. Investigator Searches per name | 3.00 ($10.00 minimum) |
| 3. Standard Computer Tabulation of projects | 120.00 plus 35¢ per page print |
| 4. Accession No. Retrieval | 1.00 ($5.00 minimum) |
| 5. Organizational Programs | Negotiated |
| 6. Subject-field Catalogs | Negotiated |
| 7. Special Compilations | Negotiated |
| 8. Automatic Distribution of Agency NRPs | .10 per NRP (Billed Quarterly) |

## TITLE III (PACE) PROJECTS ON SCIENCE AND MATHEMATICS EDUCATION

Information analysts at SEIAC have reviewed Pacesetters in Innovation, Fiscal Year 1967 (OE-20103-67) to identify planning and operational grants related to science and mathematics education. The bibliography included in this newsletter is divided into three sections--(1) documents related to science education, (2) documents related to mathematics education, and (3) documents related to both science and mathematics education.

Each entry provides citation data and index terms for the document. Prices listed are current EDRS prices. When ordering documents, be certain to include the ERIC document number of each document and indicate whether you desire microfiche (MF) or hard copy (HC). If your order does not exceed $3.00, a 50¢ handling charge should be included. Requests for documents should be addressed to EDRS, The National Cash Register Company, 4936 Fairmont Avenue, Bethesda, Maryland 20014.

# I. SCIENCE EDUCATION

ES 001 082
INSTRUCTIONAL SYSTEM APPROACH TO THE IMPLEMENTATION OF STUDENT MASTERY IN PHYSICAL AND EARTH SCIENCES THROUGH INDIVIDUALIZED INSTRUCTIONAL METHODS.
CALIF., HANFORD, KINGS COUNTY SUPT. OF SCHOOLS
EDRS PRICE MF-$0.50 HC-$2.72 68P.

DESCRIPTORS- *GRADES 7-12, *INSERVICE TEACHER EDUCATION, *PHYSICAL SCIENCES, *PROGRAMED INSTRUCTION, *SYSTEMS APPROACH, INDIVIDUAL INSTRUCTION.

ES 001 085
DEVELOPMENT PROGRAM TO ATTAIN STATED BEHAVIORAL OBJECTIVES IN SCIENCE - A SYSTEM APPROACH.
CALIF., PALO ALTO, UNIFIED SCHOOL DISTRICT
EDRS PRICE MF-$0.50 HC-$2.60 65P.

DESCRIPTORS- *BIOLOGY, *CURRICULUM PLANNING, *GRADES 7-12, *PHYSICAL SCIENCES, * SCIENCE COURSE IMPROVEMENT PROJECT, * STUDENT CHARACTERISTICS, *SYSTEMS APPROACH, HUMAN ENGINEERING, INFORMATION SYSTEMS, MULTISENSORY LEARNING, OPERATIONS RESEARCH.

ES 001 097
TALCOTT MOUNTAIN SCIENCE CENTER FOR STUDENT INVOLVEMENT.
CONN., AVON, BOARD OF EDUCATION
EDRS PRICE MF-$0.50 HC-$3.52 88P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *ASTRONOMY, *GRADES 1-6, *GRADES 7-12, *RADIO, *RESOURCE CENTERS, ADVANCED PROGRAMS, ELECTRONICS.

ES 001 111
MARINE SCIENCE STATION.
FLA., INVERNESS, CITRUS COUNTY BD. OF PUB. INST.
EDRS PRICE MF-$0.50 HC-$3.52 88P.

DESCRIPTORS- *CONSERVATION EDUCATION, *GRADES 1-6, *GRADES 7-12, *NATURAL SCIENCES, *OCEANOLOGY, *OUTDOOR EDUCATION, *RESOURCE CENTERS, CAMPING, FIELD TRIPS, INSERVICE TEACHER EDUCATION, MUSEUMS, SCIENCE LABORATORIES.

ES 001 119
OPERATING A PILOT SUMMER OUTDOOR EDUCATION EXPERIENCE FOR APPROXIMATELY 200 STUDENTS IN THE COLLEGE COMMUNITY SCHOOL AND IMMEDIATE AREA.
IOWA, CEDAR RAPIDS, COLLEGE COMMUNITY BD. OF EDUC.
EDRS PRICE MF-$0.25 HC-$1.16 29P.

DESCRIPTORS- *ENRICHMENT PROGRAMS, *GRADES 7-12, *OUTDOOR EDUCATION, COMMUNITY RESOURCES, FIELD TRIPS, INDEPENDENT STUDY.

ES 001 128
REGIONAL EDUCATIONAL AND CULTURAL PARK.
MAINE, BIDDEFORD, BOARD OF EDUCATION
EDRS PRICE MF-$0.50 HC-$3.36 84P.

DESCRIPTORS- *ELEMENTARY SCIENCE, *GRADES 1-6, *GRADES 7-12, *HUMANITIES, *INSERVICE TEACHER EDUCATION, *MASTER PLANS, *READING, *SOCIO-PSYCHOLOGICAL SERVICES, EDUCATIONAL FACILITIES, GUIDANCE, INSTRUCTIONAL MATERIALS CENTERS, MOBILE EDUCATIONAL SERVICES, PILOT PROJECTS, TEACHING TECHNIQUES.

ES 001 135
AUDIOVISUAL TUTORING SYSTEM.
MASS., BOYLSTON, BERLIN-BOYLSTON REGIONAL SCH. COMM.
EDRS PRICE MF$0.25 HC-$0.60 15P.

DESCRIPTORS- *AUDIOVIDEO LABORATORIES, *BIOLOGY, *GRADE 10, *SELF PACING MACHINES, AUTOINSTRUCTIONAL AIDS, CARRELS.

ES 001 137
SUPPLEMENTARY EDUCATIONAL CENTER.
MASS., WORCESTER, PUBLIC SCHOOLS
EDRS PRICE MF-$0.75 HC-$5.36 134P.

DESCRIPTORS- *GRADES 1-6, *GRADES 7-12, *INSERVICE PROGRAMS, *INSTRUCTIONAL MATERIALS CENTERS, *PERCEPTUALLY HANDICAPPED, *PLANETARIUMS, *READING CLINICS, ASTRONOMY, OCEANOLOGY, PRESERVICE EDUCATION, PROJECTION EQUIPMENT, PSYCHOMOTOR SKILLS, READING DIFFICULTY.

ES 001 140
DEVELOPING A SUMMER INSTITUTE IN THE ARTS AND SCIENCES FOR NORTHERN BERKSHIRE COUNTY.
MASS., WILLIAMSTOWN, MT. GREYLOCK REG. SCH. DIST.
EDRS PRICE MF-$0.25 HC-$0.68 17P.

DESCRIPTORS- *FINE ARTS, *SCIENCES, *SUMMER PROGRAMS, *TEENAGERS, COMMUNICATION PROBLEMS, COMMUNITY RESOURCES.

ES 001 160
OUTDOOR EDUCATION CENTER.
N. MEX., ALBUQUERQUE, PUBLIC SCHOOLS
EDRS PRICE MF-$0.25 HC-$1.40 35P.

DESCRIPTORS- *GRADE 5, *GRADE 6, *OUTDOOR EDUCATION, CURRICULUM ENRICHMENT, FIELD TRIPS, INSERVICE TEACHER EDUCATION, LABORATORIES, PARENT PARTICIPATION.

ES 001 186
RADIATION SCIENCE SEMINAR.
PA., WILKES-BARRE, CITY SCHOOL DISTRICT
EDRS PRICE MF-$0.50 HC-$3.60 90P.

DESCRIPTORS- *ADVANCED PROGRAMS, *ATOMIC THEORY, *GRADES 7-12, *LABORATORY EXPERIMENTS, BIOLOGY, CHEMISTRY, EVENING PROGRAMS, FIELD TRIPS, FILM-STRIPS, INDUSTRY, PHYSICS, RADIATION TECHNOLOGY, VIDEO TAPE RECORDINGS, WEEKEND PROGRAMS.

ES 001 190
TEXAS GULF COAST SCIENCE EDUCATIONAL RESOURCES CENTER.
TEX., HOUSTON, INDEPENDENT SCHOOL DISTRICT
EDRS PRICE MF-$1.00 HC-$9.04 226P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *DEMONSTRATION CENTERS, *GRADES 1-6, *GRADES 7-12, *INSERVICE TEACHER EDUCATION, *PILOT PROJECTS, *RESOURCE CENTERS, ASTRONOMY, BIOLOGICAL SCIENCES, BOTANY.

ES 001 221
AIR AGE VOCATIONAL PROGRAM.
COLO., AURORA, ADAMS-ARAPAHOE SCHOOL DIST. 28-J
EDRS PRICE MF-$0.50 HC-$2.36 59P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *AVIATION MECHANICS, *GRADES 7-12, *VOCATIONAL EDUCATION, VOCATIONAL COUNSELING.

ES 001 230
LOWELL ENVIRONMENTAL ARTS AND SCIENCE CENTER.
MASS., LOWELL, PUBLIC SCHOOLS
EDRS PRICE MF-$0.50 HC-$3.64 91P.

DESCRIPTORS- *CONSERVATION EDUCATION, *ENVIRONMENTAL INFLUENCES, *GRADES 1-6, *GRADES 7-12, *OUTDOOR EDUCATION, INSERVICE PROGRAMS, PILOT PROJECTS.

ES 001 239
DIVERSIFIED OUTDOOR EDUCATION.
N. C., WENTWORTH, ROCKINGHAM COUNTY SCHOOLS
EDRS PRICE MF-$0.50 HC-$3.12 78P.

DESCRIPTORS- *CONSERVATION EDUCATION, *EDUCABLE MENTALLY HANDICAPPED, *GRADES 1-6, *GRADES 7-12, *OUTDOOR EDUCATION, *REMEDIAL READING PROGRAMS, *SUMMER PROGRAMS, CAMPING, FIELD TRIPS.

ES 001 244
ITINERANT RESOURCE SCIENCE PROJECT.
PA., WILKINSBURG, BOROUGH SCHOOL DISTRICT
EDRS PRICE MF-$0.25 HC-$1.16 25P.

DESCRIPTORS- *ELEMENTARY SCIENCES, *GRADES 1-6, *INSERVICE TEACHER EDUCATION, *LABORATORY EXPERIMENTS, *RESOURCE TEACHERS.

ES 001 247
SOUTH ARKANSAS CURRICULUM AND SERVICES LABORATORY.
ARK., EL DORADO, SCHOOL DISTRICT 15
EDRS PRICE MF-$0.50 HC-$5.00 125P.

DESCRIPTORS- *AUDIOVISUAL AIDS, *BOTANY, *ENGLISH INSTRUCTION, *GRADES 1-6, *GRADES 7-12, *INSERVICE TEACHER EDUCATION, *REMEDIAL READING, *SCIENCES, CONSULTANTS, GRAMMAR, INDUCTIVE METHODS, SCIENCE LABORATORIES, STUDENT MOTIVATION.

ES 001 250
FLOATING MARINE SCIENCE LABORATORY.
CALIF., SANTA ANA, ORANGE COUNTY SUPT. OF SCHOOLS
EDRS PRICE MF-$0.50 HC-$3.20 80P.

DESCRIPTORS- *BIOLOGY, *GRADES 7-12, *OCEANOLOGY, *PHYSICAL SCIENCES, *SCIENCE LABORATORIES, CHEMISTRY, PHYSICS.

ES 001 251
APPLICATION FOR A PLANNING GRANT TO PLAN A SUPPLEMENTARY EDUCATION CENTER FOR CONTRA COSTA COUNTY.
CALIF., PLEASANT HILL, CONTRA COSTA COUNTY SUPT.
EDRS PRICE MF-$0.50 HC-$2.80 70P.

DESCRIPTORS- *ABLE STUDENTS, *CONSERVATION EDUCATION, *GRADES 1-6, *GRADES 7-12, *HEALTH EDUCATION, *OCCUPATIONAL INFORMATION, *READING DEVELOPMENT, ADMINISTRATIVE ORGANIZATION, FEASIBILITY STUDIES, SYSTEMS DEVELOPMENT.

ES 001 254
PROGRAM OF OUTDOOR EDUCATION (TITLE SUPPLIED).
IDAHO, AMERICAN FALLS, SCHOOL DISTRICT 381
EDRS PRICE MF-$0.50 HC-$2.36 59P.

DESCRIPTORS- *CONSERVATION EDUCATION, *CURRICULUM ENRICHMENT, *FIELD EXPERIENCE PROGRAMS, *GRADE 7, *RESOURCE TEACHERS, *SUMMER PROGRAMS, CAMPING, SCHOOL COMMUNITY PROGRAMS.

ES 001 259
CONSERVATION EDUCATION.
MONT., GREAT FALLS, SCHOOL DISTRICT 1
EDRS PRICE MF-$0.25 HC-$2.16 54P.

DESCRIPTORS- *CONSERVATION EDUCATION, *FIELD EXPERIENCE PROGRAMS, *GRADES 1-6, *GRADES 7-12, *INSERVICE TEACHER EDUCATION, *OUTDOOR EDUCATION, CAMPING, CURRICULUM ENRICHMENT, PRESCHOOL CHILDREN.

ES 001 261
EPIC--EDUCATIONAL PROJECT TO IMPLEMENT CONSERVATION.
MASS., WESTFIELD, SCHOOL COMMITTEE
EDRS PRICE MF-$0.25 HC-$1.40 35P.

DESCRIPTORS- *ART, *CONSERVATION EDUCATION, *GRADES 1-6, *GRADES 7-12, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *SOCIAL SCIENCES, INSERVICE PROGRAMS, PILOT PROJECTS.

ES 001 291
SCIENCE INSERVICE TRAINING PROJECT - FULTON COUNTY.
PA., MC CONNELLSBURG, FULTON COUNTY SCHOOL BOARD
EDRS PRICE MF-$0.25 HC-$1.00 25P.

DESCRIPTORS- *ELEMENTARY SCHOOL SCIENCE, *INSERVICE TEACHER EDUCATION, *TEACHING TECHNIQUES, SCIENCE EQUIPMENT, SCIENCE EXPERIMENTS.

ES 001 309
BISTATE PROJECT FOR THE IMPROVEMENT OF INSERVICE TEACHER EDUCATION THROUGH SCIENCE.
MO., TARKIO, SCHOOL DISTRICT R-1
EDRS PRICE MF-$0.50 HC-$3.36 84P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *INSERVICE TEACHER EDUCATION, *SCIENCE PROGRAMS, *TEACHER ATTITUDES, ELEMENTARY EDUCATION, INSTRUCTIONAL MATERIALS, SUMMER PROGRAMS.

ES 001 310
OCEANOGRAPHIC EDUCATION CENTER.
MASS., FALMOUTH, TOWN SCHOOL COMMITTEE
EDRS PRICE MF-$0.25 HC-$1.52 38P.

DESCRIPTORS- *EDUCATIONAL SERVICE CENTERS, *INSTRUCTIONAL MATERIALS, *INSTRUCTIONAL MATERIALS CENTERS, *OCEANOLOGY, ADULT EDUCATION, INSERVICE TEACHER EDUCATION, SUMMER PROGRAMS.

ES 001 321
REGIONAL CENTER FOR STUDY AND IMPROVEMENT OF ELEMENTARY SCIENCE EDUCATION.
N. Y., SCOTTSVILLE, WHEATLAND-CHILI CENT. 1
EDRS PRICE MF-$0.50 HC-$3.64 91P.

DESCRIPTORS- *DEMONSTRATION CENTERS, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS CENTERS, CONSULTANTS, CURRICULUM DEVELOPMENT, INSERVICE TEACHER EDUCATION, SCIENCE EDUCATION, WORKSHOPS.

ES 001 332
SUPPLEMENTARY EDUCATIONAL CENTER - OPERATIONAL GRANT.
N. C., SALISBURY, CITY BOARD OF EDUCATION
EDRS PRICE MF-$0.50 HC-$2.76 69P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *DEMONSTRATION CENTERS, *GRADES 1-6, *GRADES 7-12, *INSTRUCTIONAL MATERIALS CENTERS, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *CULTURAL ENRICHMENT, FINE ARTS, HISTORY, INSERVICE TEACHER EDUCATION, SCIENCE LABORATORIES.

ES 001 357
OKEFENOKEE ELEMENTARY SCIENCE CURRICULUM PROJECT.
GA., WAYCROSS, WARE COUNTY BOARD OF EDUCATION
EDRS PRICE MF-$0.25 HC-$1.40 35P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *ELEMENTARY SCIENCE, *GRADES 1-6, *SCIENCE COURSE IMPROVEMENT PROJECT, AUDIOVISUAL AIDS, COOPERATIVE PROGRAMS, INSERVICE TEACHER EDUCATION.

ES 001 356
RESOURCE-USE OUTDOOR EDUCATION CENTER.
FLA., PERRY, TAYLOR COUNTY BD. OF PUBLIC INSTRUCTION
EDRS PRICE MF-$0.50 HC-$4.75 109P.

DESCRIPTORS- *CONSERVATION EDUCATION, *GRADES 1-6, *GRADE 7-12, *NATURAL RESOURCES, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *RESOURCE CENTERS, AGRICULTURE, INSERVICE TEACHER EDUCATION, PRESERVICE EDUCATION.

ES 001 364
OUTDOOR LABORATORY OF NATURAL ENVIRONMENTAL SCIENCE.
MAINE, WINDHAM, TOWN SCHOOL COMMITTEE
EDRS PRICE MF-$0.25 HC-$0.84 21P.

DESCRIPTORS- *BIOLOGY, *FIELD EXPERIENCE PROGRAMS, *GRADES 1-6, *GRADES 7-12, *OUTDOOR EDUCATION, *CONSERVATION EDUCATION.

ES 001 366
REGIONAL ACADEMIC MARINE PROGRAM.
MAINE, KITTERY POINT COMM. R.W. TRAIP ACADEMY
EDRS PRICE MF-$0.50 HC-$2.44 61P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *INTERDISCIPLINARY APPROACH, *OCEANOLOGY, *RESOURCE CENTERS, *SCIENCE LABORATORIES, AUDIOVISUAL AIDS, SCIENCE INSTRUCTION, SUMMER PROGRAMS.

ES 001 396
PROPOSAL FOR DEVELOPING CURRICULUM THAT WOULD INTEGRATE "NATUREALM" WITH EDUCATIONAL PROGRAMS IN THE COMMONWEALTH.
PA., DUNCANSVILLE, APPALACHIAN REG. INSTR.
EDRS PRICE MF-$0.50 HC-$2.52 63P.

DESCRIPTORS- *CONSERVATION EDUCATION, *CURRICULUM DEVELOPMENT, *GRADES 1-6, *GRADES 7-12, *OUTDOOR EDUCATION, NATUREALM.

ES 001 402
NORTHEASTERN SOUTH DAKOTA SUPPLEMENTARY EDUCATION SERVICE CENTER.
S. DAK., WEBSTER, INDEP. SCHOOL DISTRICT 101
EDRS PRICE MF-$0.25 HC-$0.56 14P.

DESCRIPTORS- *EDUCATIONAL RESEARCH, *GRADES 1-6, *GRADES 7-12, *OUTDOOR EDUCATION, *RURAL SCHOOL SYSTEMS, CAMPING, DATA COLLECTION.

ES 001 408
COOPERATIVE AEROSPACE EDUCATION PROJECT FOR RENTON, KENT, AND FEDERAL WAY SCHOOL DISTRICTS.
WASH., RENTON SCHOOL DISTRICT 403
EDRS PRICE MF-$0.25 HC-$1.20 30P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *CURRICULUM DEVELOPMENT, *INDUSTRY, *INSERVICE TEACHER EDUCATION, *INTERDISCIPLINARY APPROACH, SOCIOECONOMIC INFLUENCES, SUMMER WORKSHOPS.

ES 001 436
OUT-OF-DOORS, A SUMMER SCIENCE PROGRAM FOR ELEMENTARY AND SECONDARY SCHOOL STUDENTS.
MD., ELKTON, CECIL COUNTY PUBLIC SCHOOLS
EDRS PRICE MF-$0.25 HC-$1.92 48P.

DESCRIPTORS- *CONSERVATION EDUCATION, *GRADES 1-6, *GRADES 7-12, *HIGH ACHIEVERS, *OUTDOOR EDUCATION, *SCIENCE EDUCATION, *SUMMER PROGRAMS, CAMPING, INDIVIDUAL INSTRUCTION.

ES 001 441
LIBERTY PROGRAM (TITLE SUPPLIED).
MASS., CONCORD, CONCORD-CARLISLE REGIONAL SCH. DIST.
EDRS PRICE MF-$0.75 HC-$6.84 171P.

DESCRIPTORS- *CONSERVATION EDUCATION, *INSTRUCTIONAL IMPROVEMENT, *PROGRAMED INSTRUCTION, *RESOURCE CENTERS, *SPECIAL EDUCATION, *VOCATIONAL DEVELOPMENT, CURRICULUM DEVELOPMENT, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS.

ES 001 454
APPLICATION FOR FEDERAL GRANT TO PLAN A SUPPLEMENTARY EDUCATIONAL CENTER AND SERVICES.
N. H., HOLDERNESS, SCHOOL DISTRICT
EDRS PRICE MF-$0.25 HC-$1.08 27P.

DESCRIPTORS- *CONSERVATION EDUCATION, *EDUCATION SERVICE CENTERS, *NATURAL SCIENCES, *PHYSICAL SCIENCES, CAREER PLANNING, CREATIVE ACTIVITIES, EXHIBITS, HOBBIES, INSERVICE TEACHER EDUCATION.

ES 001 456
IMPLEMENTATION OF A PROCESS-ORIENTED SCIENCE PROGRAM IN THE ELEMENTARY SCHOOLS OF MONTCLAIR, NEW JERSEY.
N. J., MONTCLAIR, BOARD OF EDUCATION
EDRS PRICE MF-$0.25 HC-$1.36 34P.

DESCRIPTORS- *ELEMENTARY SCHOOL SCIENCE, *GRADES 1-6, *INDIVIDUALIZED PROGRAMS, *INSERVICE TEACHER EDUCATION, *SCIENCE COURSE IMPROVEMENT PROJECT, *SKILL DEVELOPMENT, TEACHER AIDES.

ES 001 458
APPLICATION FOR FEDERAL GRANT TO ESTABLISH, OPERATE, AND MAINTAIN A SUPPLEMENTARY EDUCATIONAL CENTER AND SERVICES.
N. MEX., ROSWELL, MUNICIPAL SCHOOLS
EDRS PRICE MF-$0.25 HC-$1.46 37P.

DESCRIPTORS- *CROSS CULTURAL TRAINING, *CULTURAL CENTERS, *CULTURAL ENRICHMENT, *CURRICULUM ENRICHMENT, *NATURAL SCIENCES ARCHAEOLOGY, ART, ASTRONOMY, GEOLOGY, HISTORY, MUSIC, SCIENCE TEACHING CENTERS.

ES 001 484
EDUCATIONAL PARK OF SCIENCES, ARTS, AND VOCATIONAL COUNSELING.
VA., NORFOLK, CITY SCHOOL BOARD
EDRS PRICE MF-$0.50 HC-$2.72 68P.

DESCRIPTORS- *FINE ARTS, *INTERDISCIPLINARY APPROACH, *RESOURCE CENTERS, *SCIENCE EDUCATION, *VOCATIONAL COUNSELING, HIGH ACHIEVERS, INSERVICE TEACHER EDUCATION, MUSEUMS, SCIENCE LABORATORIES.

ES 001 490
CENTER FOR THE DEVELOPMENT OF LOCALIZED INSTRUCTIONAL MATERIALS.
WIS., MADISON, JOINT DISTRICT 8
EDRS PRICE MF-$0.50 HC-$2.72 68P.

DESCRIPTORS- *CITY GOVERNMENT, *COMMUNITY RESOURCES, *CULTURAL ENVIRONMENT, *HISTORY, *INSTRUCTIONAL MATERIALS CENTERS, *NATURAL SCIENCES, AUDIOVISUAL AIDS.

ES 001 514
EDUCATION COOPERATIVE (WEST MET).
MASS., WELLESLEY HILLS, WELLESLEY PUBLIC SCHOOLS
EDRS PRICE MF-$1.00 HC-$8.32 208P.

DESCRIPTORS- *COOPERATIVE PROGRAMS, *CULTURAL ENRICHMENT, *EDUCATION SERVICE CENTERS, *SCIENCE PROGRAMS, *SPECIAL EDUCATION, ASTRONOMY, DANCE, FINE ARTS, INSTRUCTIONAL FILMS, INSTRUCTIONAL MATERIALS, MENTAL RETARDATION, MUSIC, NATURAL SCIENCES, THEATER ARTS.

ES 001 515
PROJECT LIGHTHOUSE - SOUTH SHORE SCHOOL SYSTEM CENTER.
MASS., MARSHFIELD, PUBLIC SCHOOLS
EDRS PRICE MF-$0.75 HC-$7.68 192P.

DESCRIPTORS- *COMMUNITY RESOURCES, *EXCEPTIONAL CHILDREN, *LANGUAGE ARTS, *NATURAL RESOURCES, *OUTDOOR EDUCATION, CULTURAL BACKGROUND, FIELD TRIPS, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS, MOBILE EDUCATIONAL SERVICES, SPECIAL EDUCATION, STUDENT RESEARCH.

ES 001 545
LIFE SCIENCE EDUCATION CENTER.
TEX., CORPUS CHRISTI, INDEPENDENT SCHOOL DISTRICT
EDRS PRICE MF-$0.75 HC-$5.92 148P.

DESCRIPTORS- *INSERVICE TEACHER EDUCATION, *INSTRUCTIONAL MATERIALS CENTERS, *MUSEUMS, *NATURAL SCIENCES, *OCEANOLOGY, *RESOURCE CENTERS, COMMUNITY RESOURCES, ELEMENTARY SCHOOL SCIENCE, REALIA.

ES 001 546
INTEGRATED ELECTRICITY - ELECTRONICS PROGRAM BETWEEN INDUSTRY AND SMALL SCHOOLS.
TEX., TRINIDAD, INDEPENDENT SCHOOL DISTRICT
EDRS PRICE MF-$0.25 HC-$1.04 26P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *ELECTRICITY, *ELECTRONICS, *GRADES 7-12, *INDUSTRIAL ARTS, *VOCATIONAL EDUCATION, COMMUNITY INVOLVEMENT.

ES 001 561
PROJECT GOLD MIND.
CALIF., WOODLAND, YOLO COUNTY SCHOOLS
EDRS PRICE MF-$0.50 HC-$3.44 86P.

DESCRIPTORS- *COMMUNITY RESOURCES, *CULTURAL ENRICHMENT, *CURRICULUM DEVELOPMENT, *EDUCATION SERVICE CENTERS, *NATURAL SCIENCES, *OCCUPATIONAL GUIDANCE, CAMPING, EXHIBITS, FIELD TRIPS, FILM PRODUCTION, MUSIC, THEATER ARTS.

ES 001 574
COOPERATIVE SUMMER SCHOOL CAMP.
COLO., ALAMOSA, SAN LUIS VALLEY BD. OF COOP. SVCS.
EDRS PRICE MF-$0.25 HC-$1.92 48P.

DESCRIPTORS- *CAMPING, *CULTURAL ENRICHMENT, *GRADES 1-6, *GRADES 7-12, *INTERPERSONAL RELATIONSHIP, *OUTDOOR EDUCATION, CULTURALLY DISADVANTAGED, DIAGNOSTIC TESTS (EDUCATION), EDUCATIONAL IMPROVEMENT, GIFTED, INSERVICE TEACHER EDUCATION, PHYSICALLY HANDICAPPED, RECREATIONAL ACTIVITIES, SUMMER PROGRAMS, WEEKEND PROGRAMS.

ES 001 576
EARTH AND SPACE SCIENCE TEACHING AND STUDY CENTER.
FLA., TAVARES, LAKE COUNTY BOARD OF PUBLIC INST.
EDRS PRICE MF-$0.75 HC-$5.36 134P.

DESCRIPTORS- *AEROSPACE TECHNOLOGY, *EARTH SCIENCE, *GRADES 1-6, *GRADES 7-12, *SCIENCE TEACHING CENTERS, DEMONSTRATION PROGRAMS, INDEPENDENT STUDY, INSERVICE TEACHER EDUCATION.

ES 001 585
UTILIZATION OF OUTDOOR EDUCATION ACTIVITIES TO ENRICH AND ENHANCE LEARNING K-12 PROGRAM.
ILL., DEERFIELD, SCHOOL DISTRICT 109
EDRS PRICE MF-$0.25 HC-$1.64 41P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *GRADES 1-6, *GRADES 7-12, *INTERPERSONAL RELATIONSHIP, *LEARNING MOTIVATION, *OUTDOOR EDUCATION, *STUDENT ATTITUDES, FIELD TRIPS, INTERDISCIPLINARY APPROACH.

ES 001 616
OUTDOOR LABORATORY IN FIELD ECOLOGY AND ESTABLISHMENT OF AN ECOLOGICAL MUSEUM.
MO., HIGGINSVILLE, SCHOOL DISTRICT C-1
EDRS PRICE MF-$0.50 HC-$2.56 64P.

DESCRIPTORS- *ECOLOGY, *FIELD STUDIES, *GRADES 7-12, *INTERDISCIPLINARY APPROACH, *MUSEUMS, *OUTDOOR EDUCATION, BIOLOGY, DISCOVERY PROCESSES, SCIENCE LABORATORIES, SCIENTIFIC METHODOLOGY.

ES 001 621
OPERATIONAL ASTRONOMY - THE EARTH AND BEYOND.
N. J., CRANFORD, BOARD OF EDUCATION
EDRS PRICE MF-$0.25 HC-$2.08 52P.

DESCRIPTORS- *ASTRONOMY, *CURRICULUM DEVELOPMENT, *GIFTED, *GRADES 1-6, *GRADES 7-12, *SCIENCE LABORATORIES, ADULT EDUCATION, INSERVICE TEACHER EDUCATION.

ES 001 625
SUPPLEMENTARY EDUCATIONAL MUSEUM AND RESOURCE CENTER FOR CLINTON, ESSEX, FRANKLIN, AND HAMILTON COUNTIES.
N. Y., ELLENBURG DEPOT, CLINTON COUNTY BD. EDUC. SVCS.
EDRS PRICE MF-$0.25 HC-$1.36 34P.

DESCRIPTORS- *COMMUNITY RESOURCES, *HISTORY, *MUSEUMS, *NATURAL SCIENCES, *RESOURCE CENTERS, *SOCIAL STUDIES, BUS TRANSPORTATION, CURRICULUM ENRICHMENT, FIELD TRIPS, INSTRUCTIONAL MATERIALS.

ES 001 630
DEVELOPMENT OF A UNIQUE EDUCATIONAL AND CULTURAL MARINE SCIENCE CENTER.
N. C., BEAUFORT, CARTERET COUNTY BOARD OF EDUC.
EDRS PRICE MF-$0.50 HC-$4.80 120P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *ECOLOGY, *GRADES 1-6, *GRADES 7-12, *INSTRUCTIONAL MATERIALS, *OCEANOLOGY, EXHIBITS, FIELD TRIPS, INSERVICE TEACHER EDUCATION, MOBILE EDUCATIONAL SERVICES, SPECIALISTS.

ES 001 649
FEASIBILITY STUDY BY SCHOOLS, BUSINESS, INDUSTRY, AND COMMUNITY RE--SCHOOL-COMMUNITY SCIENCE RESOURCE CENTER.
PA., PITTSBURGH, BALDWIN-WHITEHALL SCHOOL DISTRICT
EDRS PRICE MF-$0.25 HC-$2.24 56P.

DESCRIPTORS- *COMMUNITY RESOURCES, *PROGRAM PLANNING, *SCIENCE CURRICULUM, *SCIENCE TEACHING CENTERS, ADULT EDUCATION, INSERVICE TEACHER EDUCATION, SCIENTIFIC LITERACY, TRADE AND INDUSTRIAL EDUCATION.

ES 001 671
WESTERN WYOMING HERITAGE - CULTURALLY, EDUCATIONALLY, RECREATIONALLY.
WYO., GREEN RIVER, SCHOOL DISTRICT 2
EDRS PRICE MF-$0.75 HC-$5.32 133P.

DESCRIPTORS- *CULTURAL ENRICHMENT, *OUTDOOR EDUCATION, *RECREATIONAL PROGRAMS, *STUDENT EXCHANGE PROGRAMS, CAMPING, CONSERVATION EDUCATION, FIELD TRIPS, MUSEUMS, NATURAL SCIENCES.

ES 001 688
REGIONAL COOPERATIVE OUTDOOR EDUCATION PROGRAM.
ILL., MARION, COMMUNITY UNIT SCHOOL DISTRICT 2
EDRS PRICE MF-$0.50 HC-$3.84 96P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *GRADES 1-6, *INSERVICE TEACHER EDUCATION, *MOBILE EDUCATIONAL SERVICES, *OUTDOOR EDUCATION, *SPECIALISTS, INSTRUCTIONAL MATERIALS, TEACHING METHODS.

ES 001 699
OUTDOOR NATURAL SCIENCE LABORATORY AND PROGRAM IN UNIVERSITY CITY, MISSOURI
MO., UNIVERSITY CITY, SCHOOL DISTRICT
EDRS PRICE MF-$0.50 HC-$4.36 109P.

DESCRIPTORS- *ENRICHMENT EXPERIENCE, *GRADES 1-6, *GRADES 7-12, *INTERDISCIPLINARY APPROACH, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *SCIENCE LABORATORIES, ECOLOGY, FIELD TRIPS, SUMMER PROGRAMS.

ES 001 702
OUTDOOR CONSERVATION EDUCATION CENTER.
N. J., NEWARK, BOARD OF EDUCATION
EDRS PRICE MF-$0.25 HC-$0.84 21P.

DESCRIPTORS- *CONSERVATION EDUCATION, *INNER CITY, *INTERGROUP RELATIONS, *OUTDOOR EDUCATION, *REGIONAL PROGRAMS, CURRICULUM DEVELOPMENT, DISADVANTAGED YOUTH, ECOLOGY, NATURAL RESOURCES.

ES 001 740
CENTRAL CALIFORNIA - LABORATORY FOR LEARNING - EXTENSION.
CALIF., FRESNO, COUNTY SCHOOLS
EDRS PRICE MF-$0.25 HC-$1.88 47P.

DESCRIPTORS- *DISCOVERY PROCESSES, *ECOLOGY, *GRADE 10, *GRADE 6, *GRADE 7, *OUTDOOR EDUCATION, *SCIENCE PROJECTS, RESIDENTIAL PROGRAMS.

ES 001 756
SCIENCE EXPERIENCE AS A MOTIVATIONAL VEHICLE TO IMPROVE WRITTEN COMMUNICATION SKILLS IN THE INTERMEDIATE GRADES.
ILL., HOMEWOOD, PUBLIC SCHOOLS DISTRICT 153
EDRS PRICE MF-$0.25 HC-$0.84 21P.

DESCRIPTORS- *GRADE 5, *INSERVICE TEACHER EDUCATION, *INSTRUCTIONAL MATERIALS, *SCIENCE EXPERIMENTS, *TEACHING METHODS, *WRITING SKILLS, SUMMER PROGRAMS.

ES 001 810
INNOVATIVE CURRICULUM DEVELOPMENT IN EARTH-SPACE SCIENCE UTILIZING AN ATMOSPHERIUM-PLANETARIUM COMPLEX.
N. Y., AURORA, SOUTHERN CAYUGA CENT. SCH. DIST.
EDRS PRICE MF-$0.25 HC-$1.68 42P.

DESCRIPTORS-*AEROSPACE TECHNOLOGY, *ASTRONOMY, *CURRICULUM DEVELOPMENT, *EARTH SCIENCES, *SCIENCE TEACHING CENTERS.

ES 001 812
UPPER SUSQUEHANNA REGIONAL EDUCATIONAL SERVICE CENTER.
N. Y., BINGHAMTON, BROOME COUNTY BD/COOP. ED. SVCS
EDRS PRICE MF-$0.50 HC-$1.72 43P.

DESCRIPTORS- *CONSERVATION EDUCATION, *CULTURAL ENRICHMENT, *EXHIBITS, *REGIONAL PROGRAMS, *THEATER ARTS, BALLET, COMMUNITY PROGRAMS, CONCERTS, INSERVICE TEACHER EDUCATION, MUSIC, OPERA, SCIENCE TEACHING CENTERS, SEMINARS, WORKSHOPS.

ES 001 822
SCIENCE CENTER.
PA., ABINGTON, SCHOOL DISTRICT
EDRS PRICE MF-$0.25 HC-$0.68 17P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *INSERVICE TEACHER EDUCATION, *NATURAL SCIENCES, *SCIENCE TEACHING CENTERS.

ES 001 840
PROJECT COMPREHENSIVE
TEX., DENTON, INDEPENDENT SCHOOL DISTRICT
EDRS PRICE MF-$0.75 HC-$5.64 141P.

DESCRIPTORS- *AMERICAN HISTORY, *CHILD DEVELOPMENT CENTERS, *CURRICULUM DEVELOPMENT, *DRAMATICS, *MUSIC, *SCIENCE PROGRAMS, ATOMIC THEORY, CLINICAL DIAGNOSIS, MOBILE EDUCATIONAL SERVICES.

ES 001 849
OUTDOOR EDUCATION FOR HANDICAPPED CHILDREN.
WIS., STEVENS POINT, COOP. EDUC. SERVICE AGENCY 7
EDRS PRICE MF-$0.50 HC-$2.80 70P.

DESCRIPTORS- *CAMPING, *EDUCABLE MENTALLY HANDICAPPED, *OUTDOOR EDUCATION, *RECREATIONAL PROGRAMS, ATHLETICS, COMMUNICATION, SKILLS, CONSERVATION EDUCATION, CRAFTS, GROUP LIVING, RESIDENTIAL PROGRAMS.

ES 001 859
SCHOOL-COMMUNITY OUTDOOR EDUCATION PROJECT (A YEAR-ROUND PROGRAM FOR TEACHING IN, AND ABOUT THE OUTDOORS).
ILL., CRYSTAL LAKE, COMMUNITY SCHOOL DISTRICT 47
EDRS PRICE MF-$0.50 HC-$3.36 84P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *GRADES 1-6, *MOBILE LABORATORIES, *OUTDOOR EDUCATION, *RECREATIONAL PROGRAMS, *SCIENCE TEACHING CENTERS, COMMUNITY INVOLVEMENT, COMMUNITY RESOURCES, FIELD TRIPS.

ES 001 860
OUTDOOR LABORATORY AND COMMUNITY NATURE CENTER.
KANS., KANSAS CITY, TURNER UNIFIED SCHOOL DIST. 202
EDRS PRICE MF-$0.25 HC-$1.04 26P.

DESCRIPTORS- *CONSERVATION EDUCATION, *HORTICULTURE, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *SCIENCE TEACHING CENTERS, BIOLOGY, COMMUNITY INVOLVEMENT, JOB SKILLS, RECREATION.

ES 001 872
ROBESON COUNTY SUPPLEMENTARY EDUCATION CENTER.
N. C., LUMBERTON, ROBESON COUNTY BOARD OF EDUC.
EDRS PRICE MF-$0.50 HC-$2.80 70P.

DESCRIPTORS-*CULTURAL ENRICHMENT, *DEMONSTRATION PROJECTS, *LIBRARY MATERIALS, *RESOURCE CENTERS, *SCIENCE TEACHING CENTERS, *TEACHER IMPROVEMENT, AUDIOVISUAL AIDS, INSTRUCTIONAL MATERIALS, MASTER TEACHERS.

ES 001 876
PROPOSED PROGRAM FOR A SPACE AND EARTH SCIENCE CENTER.
N. C., CONCORD, CABARRUS COUNTY BOARD OF EDUC.
EDRS PRICE MF-$0.50 HC-$2.96 74P.

DESCRIPTORS- *ASTRONOMY, *GRADES 1-6, *GRADES 7-12, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *SCIENCE COURSE IMPROVEMENT PROJECT, *SCIENCE TEACHING CENTERS, INTERDISCIPLINARY APPROACH, LOW LEVEL ASPIRATION, MOBILE LABORATORIES.

ES 001 877
POLLUTION, LIFE, AND EARTH APPLIED SCIENCE ENRICHMENT.
OHIO, WILLOUGHBY, WILLOUGHBY-EASTLAKE SCH. DIST.
EDRS PRICE MF-$0.25 HC-$2.24 56P.

DESCRIPTORS- *EARTH SCIENCE, *GRADES 1-6, *GRADES 7-12, *NATURAL SCIENCES, *OUTDOOR EDUCATION, *WATER RESOURCES, *ZOOS, BIOLOGY, ECOLOGY, FILMS, GEOLOGY, SCIENCE LABORATORIES.

ES 001 882
CURRICULUM DEMONSTRATION NETWORK.
TEX., AUSTIN, INDEPENDENT SCHOOL DISTRICT
EDRS PRICE MF-$0.50 HC-$3.04 76P.

DESCRIPTORS-*CURRICULUM DEVELOPMENT, *DEMMONSTRATION CENTERS, *GRADES 1-6, *INSERVICE TEACHER EDUCATION, *SCIENCE COURSE IMPROVEMENT PROJECT.

ES 001 954
INSTRUCTIONAL, RESEARCH, AND DEMONSTRATION LABORATORY IN THE BIOLOGICAL SCIENCES FOR ELEMENTARY AND SECONDARY PUPILS.
MINN., MINNEAPOLIS, INDEPENDENT SCHOOL DIST. 275
EDRS PRICE MF-$0.50 HC-$4.24 106P.

DESCRIPTORS- *BIOLOGICAL SCIENCES, *CURRICULUM DEVELOPMENT, *CURRICULUM ENRICHMENT, *NATURE CENTERS.

ES 001 966
OUTDOOR EDUCATION CURRICULUM FOR ALL SEASONS IN UTAH COUNTY, UTAH.
UTAH, AMERICAN FORK, ALPINE SCHOOL DISTRICT
EDRS PRICE MF-$0.25 HC-$1.56 39P.

DESCRIPTORS- *CONSERVATION EDUCATION, *CURRICULUM DEVELOPMENT, *FIELD EXPERIENCE PROGRAMS, *INSTRUCTIONAL MATERIALS, *NATURAL RESOURCES, OUTDOOR EDUCATION.

ES 001 969
PLANNING A MODEL MARINE SCIENCE LABORATORY (FOR-SEA).
WASH., POULSBO, NORTH KITSAP SCHOOL DISTRICT 400
EDRS PRICE MF-$0.25 HC-$1.12 28P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *GRADES 1-6, *GRADES 7-12, *MARINE BIOLOGY, *OCEANOLOGY, *PROGRAM PLANNING, *SCIENTIFIC LITERACY, ADULT EDUCATION, FIELD TRIPS, MUSEUMS, SCIENCE LABORATORIES, SCIENTIFIC RESEARCH.

ES 001 976
BISTATE PROJECT FOR THE IMPROVEMENT OF INSERVICE TEACHER EDUCATION THROUGH SCIENCE.
IOWA, CLARINDA, COMMUNITY SCHOOL DISTRICT
EDRS PRICE MF-$0.50 HC-$3.36 84P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *INSERVICE TEACHER EDUCATION, *SCIENCE PROGRAMS, *TEACHER ATTITUDES, ELEMENTARY EDUCATION, INSTRUCTIONAL MATERIALS, SUMMER PROGRAMS.

ES 001 980
NORTHWEST EDUCATIONAL COMPLEMENTAL CENTER. MO., MARYLAND HEIGHTS, PATTONVILLE R-3 SCH. DIST.
EDRS PRICE MF-$1.00 HC-$9.48 237P.

DESCRIPTORS- *CITIZENSHIP RESPONSIBILITY, *CULTURAL ENRICHMENT, *GRADES 1-6, *GRADES 7-12, *PSYCHOEDUCATIONAL CLINICS, *REMEDIAL READING CLINICS, *SCIENCE COURSE IMPROVEMENT PROJECT, LIBRARY SERVICES.

ES 001 981
REGIONAL SCIENCE EXPERIENCE CENTER.
TENN., OAK RIDGE, SCHOOLS
EDRS PRICE MF-$1.00 HC-$9.16 229P.

DESCRIPTORS- *INFORMATION DISSEMINATION, *MOBILE EDUCATIONAL SERVICES, *REGIONAL COOPERATION, *SCIENCE COURSE IMPROVEMENT PROJECT, *SCIENCE EQUIPMENT, INSERVICE PROGRAMS.

# II. MATHEMATICS EDUCATION

ES 001 079
MATHEMATICS LABORATORY.
ARK., WYNNE, PUBLIC SCHOOLS
EDRS PRICE MF-$0.50 HC-$2.44 61P.

DESCRIPTORS- *CALCULATION, *GRADE 10, *GRADE 9, *LABORATORIES, *MATHEMATICS, DROPOUT PREVENTION, EXPERIMENTAL PROGRAMS.

ES 001 133
PROPOSAL TO DEVELOP AN INSTRUCTIONAL RESOURCES CENTER DESIGNED SPECIFICALLY TO SUPPORT TEAM TEACHING OBJECTIVES IN THE AMHERST SCHOOL DISTRICT.
MASS., AMHERST, SCHOOL COMMITTEE
EDRS PRICE MF-$0.25 HC-$1.96 49P.

DESCRIPTORS- *AUDIOVISUAL AIDS, *GRADES 1-6, *MATHEMATICS, *READING, *SCHOOL LIBRARIES, *TEAM TEACHING, ENRICHMENT PROGRAMS, INDIVIDUAL INSTRUCTION, TEACHER WORKSHOPS, VOLUNTEERS.

ES 001 169
KINGFISHER COUNTY SPECIAL EDUCATION SERVICES.
OKLA., KINGFISHER, COUNTY SUPERINTENDENT OF SCHS.
EDRS PRICE MF-$0.25 HC-$0.76 19P.

DESCRIPTORS- *GRADES 1-6, *GRADES 7-12, *REMEDIAL MATHEMATICS, *REMEDIAL READING, INSERVICE TEACHER EDUCATION.

ES 001 201
ADVANCED MATHEMATICS TELEVISION SERIES.
VA., HAMPTON, CITY SCHOOL BOARD
EDRS PRICE MF-$0.50 HC-$3.32 83P.

DESCRIPTORS- *ADVANCED PLACEMENT, *CALCULUS, *GRADE 12, *TELEVISED INSTRUCTION, *VIDEO TAPE RECORDINGS, ACCELERATED PROGRAMS, INSERVICE TEACHER EDUCATION.

ES 001 237
DEMONSTRATION OF THE FEASIBILITY OF CURRICULUM REVISIONS BY CLASSROOM TEACHERS.
R. I., PROVIDENCE, CITY PUBLIC SCHOOLS
EDRS PRICE MF-$0.25 HC-$0.88 22P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *INSERVICE TEACHER EDUCATION, *MATHEMATICS, *SELF EVALUATION, *SELF HELP PROGRAMS.

ES 001 363
GENERAL MATHEMATICS.
IND., GARY, COMMUNITY SCHOOL CORPORATION
EDRS PRICE MF-$0.25 HC-$1.08 27P.

DESCRIPTORS- *GRADES 7-12, *JUNIOR HIGH SCHOOL STUDENTS, *MATHEMATICS INSTRUCTION, *SELF HELP PROGRAMS, *STUDENT MOTIVATION, *UNDERACHIEVERS, MATHEMATICS MATERIALS.

ES 001 369
MATHEMATICS LABORATORIES FOR GENERAL MATHEMATICS IN SECONDARY SCHOOLS.
MD., ELKTON, CECIL COUNTY PUBLIC SCHOOLS
EDRS PRICE MF-$0.25 HC-$1.92 48P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *ELECTROMECHANICAL AIDS, *GRADES 7-12, *MATHEMATICS, AUDIOVISUAL AIDS, INSERVICE TEACHER EDUCATION, MOTIVATION, SKILLS, TEACHER AIDES, UNDERACHIEVERS, VOCATIONAL EDUCATION.

ES 001 400
ADVANCED GENERAL MATHEMATICS PROGRAM.
S. C., COLUMBIA, RICHLAND COUNTY SCH. DIST. 1
EDRS PRICE MF-$0.25 HC-$1.00 25P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, *GRADES 7-12, *MATHEMATICS, *NONCOLLEGE PREPARATORY STUDENTS, *SECONDARY EDUCATION, INSTRUCTIONAL MATERIALS, TEACHER WORKSHOPS.

ES 001 430
CENTRAL IOWA LOW ACHIEVER MATH PROJECT.
IOWA, DES MOINES, INDEP. COMMUNITY SCHOOL DISTRICT
EDRS PRICE MF-$0.50 HC-$2.56 64P.

DESCRIPTORS- *JUNIOR HIGH SCHOOL STUDENTS, *LOW ACHIEVERS, *POTENTIAL DROPOUTS, *REMEDIAL MATHEMATICS, INSERVICE TEACHER EDUCATION, MATHEMATICS MATERIALS.

ES 001 457
PROJECT TO PROVIDE A RESEARCH, DIAGNOSTIC, DEMONSTRATION, AND EDUCATION CENTER FOR CLOVIS PUBLIC SCHOOLS AND CONTIGUOUS AREAS.
N. MEX., CLOVIS, PUBLIC SCHOOLS
EDRS PRICE MF-$0.50 HC-$2.88 72P.

DESCRIPTORS- *CLINICAL DIAGNOSIS, *COUNSELING, *MATHEMATICS INSTRUCTION, *READING PROGRAMS, *SPECIAL EDUCATION, DISADVANTAGED YOUTH, EMOTIONALLY DISTURBED CHILDREN, HIGH ACHIEVERS, SPECIALISTS, SPEECH THERAPY, TEACHER AIDES, UNDERACHIEVERS.

ES 001 512
SOUTH PORTLAND CURRICULUM PROJECT - USE OF A TIME-SHARED COMPUTER.
MAINE, SOUTH PORTLAND, BOARD OF EDUCATION
EDRS PRICE MF-$0.25 HC-$1.24 31P.

DESCRIPTORS- *COMPUTER ORIENTED PROGRAMS, *DATA PROCESSING, *GRADES 7-12, *MATHEMATICS EDUCATION, *PROGRAMING, *VOCATIONAL EDUCATION, INSERVICE TEACHER EDUCATION, SUMMER PROGRAMS.

ES 001 597
RESOURCE CENTER FOR THE LOW ACHIEVER IN MATHEMATICS.
LA., LAFAYETTE, PARISH SCHOOL BOARD
EDRS PRICE MF-$0.25 HC-$1.36 34P.

DESCRIPTORS- *JUNIOR HIGH SCHOOL STUDENTS, *LOW ACHIEVERS, *MATHEMATICS CURRICULUM, AUDIOVISUAL AIDS, CAMP PROJECT, DISADVANTAGED YOUTH, MATHEMATICS MATERIALS, MINNEMATH, RESEARCH, RESOURCE CENTERS, TEACHING METHODS.

ES 001 600
PROTOTYPE - LEADERSHIP TRAINING PROGRAM - DEMONSTRATED THROUGH A LEADERSHIP TRAINING PROGRAM IN ELEMENTARY SCHOOL MATHEMATICS EDUCATION.
MASS., BROOKLINE, PUBLIC SCHOOLS
EDRS PRICE MF-$0.25 HC-$1.40 35P.

DESCRIPTORS- *DEMONSTRATION PROJECTS, *GRADES 1-6, *LEADER PARTICIPATION, *LEADERSHIP TRAINING, *MATHEMATICS CURRICULUM, *SPECIALISTS, EDUCATIONAL TELEVISION, SUMMER WORKSHOPS.

ES 001 602
LABORATORY PROGRAM FOR COMPUTER ASSISTED LEARNING.
MASS., WESTWOOD, SCHOOL COMMITTEE
EDRS PRICE MF-$0.25 HC-$2.04 51P.

DESCRIPTORS- *COMPUTER ORIENTED PROGRAMS, *MATHEMATICS INSTRUCTION, *PROGRAMED INSTRUCTION, *SECONDARY EDUCATION, DIGITAL COMPUTERS, INDIVIDUAL INSTRUCTION, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS.

ES 001 645
IMPROVING LEARNING THROUGH USE OF NEW TECHNIQUES INVOLVING INTERDISCIPLINARY APPROACH.
OKLA., ANADARKO, AREA OFFICE - EDUCATION
EDRS PRICE MF-$0.25 HC-$1.16 29P.

DESCRIPTORS- *AMERICAN INDIANS, *AUDIOVISUAL AIDS, MATHEMATICS, *READING, *TEACHER WORKSHOPS, ACADEMIC ACHIEVEMENTS, COMMUNICATION SKILLS, DEMONSTRATION PROJECTS, TEACHER TECHNIQUES.

ES 001 692
ELEMENTARY SCHOOL DEVELOPMENTAL MATHEMATICS PROGRAMS.
IOWA, SIOUX CITY, WOODBURY COUNTY BOARD OF EDUC.
EDRS PRICE MF-$0.25 HC-$1.04 26P.

DESCRIPTORS- *DEVELOPMENTAL PROGRAMS, *ELEMENTARY GRADES, *GRADES 1-6, *MATHEMATICS CURRICULUM, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS, TEACHING METHODS.

ES 011 711
SYSTEMS APPROACH TO IMPROVING MATHEMATICS INSTRUCTION.
PA., PITTSBURGH, SCHOOL DISTRICT
EDRS PRICE MF-$0.50 HC-$3.36 84P.

DESCRIPTORS- *GRADE 4, *INDIVIDUALIZED CURRICULUM, *INSTRUCTIONAL MATERIALS, *LEARNING PROCESSES, *MATHEMATICAL CONCEPTS, *TEACHER ROLE, INNER CITY, UNDERACHIEVERS, URBAN EDUCATION.

ES 001 712
REGIONAL SUPPLEMENTARY EDUCATIONAL SERVICES.
PA., CALIFORNIA, JOINT BOARD OF TRI-COUNTY SCH. DIR.
EDRS PRICE MF-$0.50 HC-3.32 83P.

DESCRIPTORS- *CURRICULUM DEVELOPMENT, DEMONSTRATION PROJECTS, EDUCATION SERVICE CENTERS, *MODERN MATHEMATICS, *SOCIAL STUDIES.

ES 001 732
INDIVIDUALIZED DIAGNOSTIC CURRICULUM IN READING AND MATHEMATICS.
DEPT. OF DEFENSE, U. S. DEPENDENTS SCHS-EUROPEAN AREA
EDRS PRICE MF-$0.25 HC-$1.28 32P.

DESCRIPTORS- *DIAGNOSTIC TESTS, *GRADE 5, *GRADE 6, *INDIVIDUALIZED CURRICULUM, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, *READING, *INSERVICE TEACHER EDUCATION, NONGRADED SYSTEM.

ES 001 741
INDIVIDUAL PRESCRIBED INSTRUCTION – (PROJECT EDINN - PROJECT FOR EDUCATIONAL INNOVATION).
CALIF., SALINAS, MONTEREY COUNTY SUPT. OF SCHOOLS
EDRS PRICE MF-$0.25 HC-$2.16 54P.

DESCRIPTORS- *COMPUTER ASSISTED INSTRUCTION. *GRADES 1-6, *INDIVIDUAL INSTRUCTION, *MATHEMATICS, *READING, *SEQUENTIAL LEARNING, DISADVANTAGED YOUTH, SLOW LEARNERS, TEACHER ROLE, TEAM TEACHING.

ES 001 785
COMPUTER-ASSISTED INSTRUCTION IN MATHEMATICS.
MISS., MCCOMB, MUNICIPAL SEPARATE SCHOOL DISTRICT
EDRS PRICE MF-$0.25 HC-$1.36 34P.

DESCRIPTORS- *COMPUTER ASSISTED INSTRUCTION, *ELEMENTARY SCHOOL MATHEMATICS, *FEASIBILITY STUDY, *INDIVIDUAL INSTRUCTION.

ES 001 875
DEVELOPMENT OF FOUR MODEL ELEMENTARY PROGRAMS FOR TEACHING MATHEMATICS WITH IMPLICATIONS FOR OTHER INSTRUCTIONAL AREAS.
N. C., GREENSBORO, CITY BOARD OF EDUCATION
EDRS PRICE MF-$0.50 HC-$4.36 109P.

DESCRIPTORS- *GRADES 1-6, *MATHEMATICAL MODELS, *MATHEMATICS, *TEACHER WORKSHOPS, MEASUREMENT INSTRUMENTS, MULTIGRADED CLASSES, PRESERVICE EDUCATION, TEACHER AIDES, TEAM TEACHING.

ES 001 889
SUCCESS IN MATHEMATICS THROUGH AURAL-READING TECHNIQUES (SMART).
FLA., DELAND, VOLUSIA COUNTY BD. OF PUB. INST.
EDRS PRICE MF-$0.25 HC-$2.08 52P.

DESCRIPTORS- *AURAL LEARNING, *GRADES 7-12, *INDIVIDUAL INSTRUCTION, *MATHEMATICS INSTRUCTION, *TAPE RECORDINGS, *UNDERACHIEVERS, AUDIOVISUAL AIDS.

ES 001 917
PLANNING AND PILOT IMPLEMENTATION OF A COMPUTER-BASED INSTRUCTIONAL PROGRAM (TITLE SUPPLIED).
N. Y., BROOKLYN, BD. OF EDUC. , CITY OF NEW YORK
EDRS PRICE MF-$0.25 HC-$2.24 56P.

DESCRIPTORS- *COMPUTER ASSISTED INSTRUCTION, *GRADES 1-6, *INDIVIDUALIZED CURRICULUM, *MATHEMATICS INSTRUCTION, *READING INSTRUCTION, *SPELLING, INSTRUCTIONAL MATERIALS.

# III. SCIENCE AND MATHEMATICS EDUCATION

ES 001 206

PUGET SOUND ARTS AND SCIENCE CENTER.

WASH., SEATTLE, SCHOOL DISTRICT 1

EDRS PRICE MF-$1.25 HC-$11.68 292P.

DESCRIPTORS- *ASTRONOMY, *GRADES 1-6, *GRADES 7-12, MATHEMATICS, *SCIENCES, *TEACHER WORKSHOPS, THEATER ARTS, COMPUTER ORIENTED PROGRAMS, DRAMATICS, ELEMENTARY SCIENCES, EXHIBITS, EXPERIMENTAL PROGRAMS, HUMANITIES, INSERVICE TEACHER EDUCATION, MUSIC, PHYSICAL SCIENCES.

ES 001 337

INSTRUCTIONAL PROGRAM IN MODERN CONCEPTS OF ENGINEERING FOR ALL SECONDARY TEACHERS AND STUDENTS.

PA., MEDIA, DELAWARE COUNTY BD. OF SCH. DIR.

EDRS PRICE MF-$0.50 HC-$2.44 61P.

DESCRIPTORS- *ENGINEERING, *GRADES 7-12, *INSERVICE TEACHER EDUCATION, *SCIENTIFIC CONCEPTS, *SUMMER PROGRAMS, AUTOMATION, COMPUTER ASSISTED INSTRUCTION, DIGITAL COMPUTERS, MATHEMATICAL CONCEPTS, PROGRAMING, SKILLS, SOCIOECONOMIC INFLUENCES, TECHNOLOGICAL ADVANCEMENT.

ES 001 434

NORTH LOUISIANA SUPPLEMENTARY EDUCATION CENTER.

LA., NATCHITOCHES, PARISH SCHOOL BOARD

EDRS PRICE MF-$0.50 HC-$3.08 77P.

DESCRIPTORS- *CONSERVATION EDUCATION, *EDUCATION SERVICE CENTERS, *MATHEMATICS CURRICULUM, *RESOURCE CENTERS, *SCIENCE CURRICULUM, DEMONSTRATION PROGRAMS, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS, RECREATIONAL PROGRAMS.

ES 001 651

REGIONAL SCIENCE AND MATHEMATICS IMPROVEMENT PROJECT.

PA., WILKES-BARRE, LUZERNE COUNTY SCHOOLS

EDRS PRICE MF-$0.50 HC-$3.12 78P.

DESCRIPTORS- *GRADES 7-12, *MATHEMATICS CURRICULUM, *SCIENCE COURSE IMPROVEMENT PROJECT, *SCIENCE CURRICULUM, BIOLOGICAL SCIENCES, CHEMISTRY, EARTH SCIENCE, INSERVICE TEACHER EDUCATION, MOBILE EDUCATIONAL SERVICES, PHYSICS, SCIENCE LABORATORIES.

ES 001 693

PROBLEM SOLVING - COMPUTER STYLE.

LA., NEW ORLEANS, ORLEANS PARISH SCHOOL BOARD

EDRS PRICE MF-$0.25 HC-$2.04 51P.

DESCRIPTORS- *COMPUTER ORIENTED PROGRAMS, *CURRICULUM, ENRICHMENT, *GRADES 7-12, *MATHEMATICS, *PROBLEM SOLVING, *SECONDARY SCHOOL SCIENCE, DIGITAL COMPUTERS, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS, PROGRAMING.

ES 001 881

LYCOMING COUNTY OUTDOOR EDUCATION FOR UNDERACHIEVING CHILDREN.

PA., WILLIAMSPORT, LYCOMING COUNTY BOARD OF EDUC.

EDRS PRICE MF-$0.25 HC-$0.80 20P.

DESCRIPTORS- *CAMPING, *GRADE 4, *GRADE 5, *GRADE 6, *LEARNING, MOTIVATION, *OUTDOOR EDUCATION, *UNDERACHIEVERS, ART ACTIVITIES, CRAFTS, HYGIENE, MATHEMATICS, NATURAL SCIENCES, READING, SCIENCES.

ES 001 887

REGIONAL ELEMENTARY SCHOOL TEACHER UPGRADING PROJECT.

CONN., WATERTOWN, BOARD OF EDUCATION

EDRS PRICE MF-$60.25 HC-$1.68 42P.

DESCRIPTORS- *DEMONSTRATION PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *ELEMENTARY SCHOOL TEACHERS, *GRADES 1-6, *INSERVICE TEACHER EDUCATION, *MODERN MATHEMATICS, MASTER TEACHERS, METHODOLOGY, SUMMER PROGRAMS.

# SEIAC

## ERIC

## [illegible]ENTER COMMENTS

[illegible] Science [illegible] during the first [illegible] and abstractions of [illegible] and being expanded [illegible] of information contained in the [illegible] have been published [illegible] instructional procedures for [illegible] for science education [illegible] the next year.

[illegible] mathematics education [illegible] mathematics education during the [illegible] Director for Mathematics [illegible] mathematics education.

## CURRENT INDEX TO JOURNALS IN EDUCATION

[illegible] has recently announced that [illegible] Information Sciences, Inc. has been awarded a [illegible] Current Index to Journals in Education.

[illegible] to be released [illegible] and indexing publication [illegible] field of education. Annual [illegible] available. The first monthly [illegible] journals; it is planned that [illegible] spectrum of educational [illegible]

[illegible] Current Index to Journals in Education will be a companion [illegible] Research in Education, published by the Office of Education [illegible] Central ERIC [illegible]

[illegible] Current Index to Journals in Education will be announced [illegible] will be available [illegible] the ERIC [illegible] North American Rockwell, Inc. [illegible] information [illegible] Information Sciences, Inc. [illegible] magnetic tape will be [illegible] Research in Education [illegible] literature in the ERIC [illegible]

[illegible] publication [illegible] semiannual and annual [illegible] special editions which will be [illegible] in the field of education.

Information Sciences, Inc., an independent subsidiary of Crowell Collier Macmillan, was established in the fall of 1967 to develop Macmillan's new role in the expanding field of information products and services, particularly those information needs most suitably met through non-traditional publishing methods.

The President of Information Sciences is Mr. Jeffrey Norton, formerly Vice President for Editorial Development at McGraw-Hill. Project Director for the Current Index to Journals in Education is Mr. [illegible] Bowes, Jr., Vice President of Information Sciences, Inc. Mr. Richard Kohn, Mr. William Burgess, and Miss Marietta Chicorel will also be associated with the journal effort. Dr. Sidney Forman, Professor of Education and Librarian of the Columbia University Teachers College, will serve as consultant to Information Sciences, Inc.

An attempt has been made to hold the CIJE subscription rates to a level within the reach of personal subscriptions. Following are the approximate prices:

| | |
|---|---|
| 1. Monthly Current Index to Journals in Education | |
| Annual subscription (12 issues) | $ 34.00 |
| Single copies | $ 3.50 |
| 2. Cumulative volumes | |
| Semiannual and annual to monthly subscribers | $ 30.00 |
| Semiannual and annual only | $ 38.00 |
| Semiannual, single copy | $ 12.50 |
| Annual, single copy | $ 24.50 |

A discount schedule may be provided for quantity purchases.

## AVAILABILITY OF ERIC MAGNETIC TAPES

You may borrow a copy of the magnetic tapes containing all the material included in the document resumes printed in Research in Education. It is recommended that groups consider such a request seriously in terms of their readiness to handle the tapes and the [illegible] resources they [illegible]. Still, if you want an ERIC tape to test its value for your computer system, here is how you can get one and what you need to know about its use.

The tape includes approximately 11,250 records containing the information included in the document resumes as shown in any issue of Research in Education. These records are from all issues of Research in Education from its beginning in November, 1966, through December, 1968, and from the special ERIC collections, the Disadvantaged Collection and Office of Education Research Reports, 1956-1965.

There are no provisions now for updating the tapes. The tapes are designed to operate on an IBM S/360 9 track system. As a minimum you will need 2 tape drives, a card reader, a printer, and 32 K or more core (IBM S/360 Model 30). The BPI on the tapes is 800.

Central ERIC will make the tapes available on a two week loan. There is no cost provided the tape is returned undamaged. If the tape is damaged, you will be asked to replace the tape with a new one of exactly the same model (9 track, 2400 ft., 1/2" mylar, tested to handle 1600 BPI). Central ERIC will also provide eight pages of documentation of the magnetic tape format, including the character set, field identification, and tape layout. ERIC is unable to provide or recommend any consultant time for your specific installation. We also cannot furnish assistance concerning the use of these tape files.

We specifically request that you not contact the North American Rockwell Corporation because the Office of Education has not provided the necessary resources for the contractor to provide consulting assistance.

Finally, ERIC would appreciate a short report from time to time on your experiences and use of the ERIC tapes.

Please submit your request for tapes in writing to Mr. James L. Eller, ERIC, U.S. Office of Education, 400 Maryland Avenue, S.W., Washington, D.C., 20202. Your application will be put on schedule for loan of the tapes and you will be advised of the approximate date to expect tape delivery.

## NEW EDRS PRICES ANNOUNCED

New EDRS prices were announced in the February issue of Research in Education. The new prices and information needed to order ERIC documents are listed below:

| | Cost of Document Microfiche Collection full set |
|---|---|
| Reports in Research in Education for 1967 | $ 480 |
| Reports in Research in Education for 1968 | 1,470 |
| Total for all reports | $ 1,950 |
| Office of Education Research Reports, 1956–65 | 495 |
| ERIC Catalog of Selected Documents on the Disadvantaged | 410 |
| Pacesetters in Innovation, Fiscal Year 1966 | 180 |
| Pacesetters in Innovation, Fiscal Year 1967 | 215 |
| Pacesetters in Innovation, Fiscal Year 1968 | 140 |
| Manpower Research: Inventory Fiscal Years 1966 and 1967 | 100 |
| Selected Documents in Higher Education | 190 |
| Total for all ERIC special collections | $ 1,730 |
| GRAND TOTAL | $ 3,680 |

Instructions for Ordering Documents from EDRS

- All individual microfiche continue to be 25 cents each.
- Cost of hard copy is five cents per page.
- A standing order for all microfiche of reports cited in monthly issues of RIE is currently about $125.
- To order hard copy reproductions from the February RIE and earlier issues, increase the price shown in the document resume entry by 25 percent.

Instructions for Ordering Documents from EDRS (Continued)

- Payment must accompany orders totaling less than $5. Add a handling charge of 50 cents to all orders. The ERIC Document Reproduction Service is registered to collect sales taxes. Orders from states which have sales tax laws should include payment of the appropriate tax or tax exemption certificate.
- Foreign orders: A 25–percent service charge, calculated to the nearest cent, must accompany orders from outside the U.S., its territories and possessions. This service charge is applicable to orders for microfiche and hard copy.
- Documents should be ordered from:

ERIC Document Reproduction Service
National Cash Register Company
4936 Fairmont Avenue
Bethesda, Maryland 20014

## DOCUMENTS ON SCIENCE AND MATHEMATICS EDUCATION IN RESEARCH IN EDUCATION, 1968

Information analysts at SEIAC have reviewed Research in Education, 1968, to identify documents related to science and mathematics education. The bibliography included in this newsletter is divided into three sections–(1) documents related to science education, (2) documents related to mathematics education, and (3) documents related to both science and mathematics education.

Each entry provides citation data and index terms for the document. Prices listed are current EDRS prices. When ordering documents, be certain to include the ERIC document number of each document and indicate whether you desire microfiche (MF) or hardcopy (HC). A 50¢ handling charge should be included for all orders. Requests for documents should be addressed to EDRS, the National Cash Register Company, 4936 Fairmont Avenue, Bethesda, Maryland 20014.

The source of a document listed as unavailable from EDRS can be obtained by using the abstracts in Research in Education (RIE). The ED number listed in this newsletter is the same ED number as that of the document as it appears in RIE. Locate the document resume by its ED number in RIE; the availability of the document will be indicated.

# I. SCIENCE EDUCATION

ED 012 387
RITTER, HOWARD L.
PRELIMINARY DEVELOPMENT OF A JUNIOR-HIGH COURSE IN THE LOGICAL FOUNDATIONS OF PHYSICAL SCIENCE. (TITLE SUPPLIED)
MIAMI UNIV., OXFORD, OHIO
REPORT NUMBER CRP-S-126
PUB DATE 64
EDRS PRICE MF-$1.00 HC-$11.95 239P.

DESCRIPTORS— *LOGICAL THINKING, *MATHEMATICAL APPLICATION, *PHYSICAL SCIENCES, *SCIENCE COURSES, *TEXTBOOK PREPARATION, GRADE 7, OXFORD, SCIENCE UNITS, SEQUENTIAL APPROACH, STUDENT MOTIVATION.

ED 012 559
LORETAN, JOSEPH O. AND OTHERS
EVALUATION OF SCIENCE INSTRUCTION IN SPANISH FOR STUDENTS OF SPANISH SPEAKING BACKGROUND— STEPS IN IMPLEMENTING EXPERIMENTAL PROJECT (FOR SCHOOL INFORMATION).
NEW YORK CITY BOARD OF EDUCATION, BROOKLYN, N.Y.
REPORT NUMBER PN-22-349
PUB DATE 13 APR 64
EDRS PRICE MF-$0.25 HC-$1.20 24P.

DESCRIPTORS— *BILINGUAL STUDENTS, *EXPERIMENTAL PROGRAMS, *SCIENCES, *SECONDARY SCHOOLS, *SPANISH, BILINGUALISM, COURSE OBJECTIVES, LANGUAGE RESEARCH, NEW YORK CITY, PUERTO RICANS, SCIENCE SPANISH PROGRAM.

ED 012 753
STARLING, JOHN T. BENDER, RALPH E.
INTEGRATING BIOLOGICAL PRINCIPLES WITH INSTRUCTION IN VOCATIONAL AGRICULTURE, A RESEARCH REPORT OF A GRADUATE STUDY. RESEARCH SERIES IN AGRICULTURAL EDUCATION.
OHIO STATE UNIV., COLUMBUS, COLL. OF AG. HOME EC.
PUB DATE JUL 65
EDRS PRICE MF-$0.50 HC-$3.80 76P.

DESCRIPTORS—*ACHIEVEMENT GAINS, *BIOLOGY, *PILOT PROJECTS, *TEACHING METHODS, *VOCATIONAL AGRICULTURE, ACADEMIC ACHIEVEMENT, COLUMBUS, COMPARATIVE ANALYSIS, CONTROL GROUPS, OHIO, PROGRAM EVALUATION, SECONDARY SCHOOL STUDENTS, STUDENT EVALUATION, STUDENT INTERESTS, TEACHER ATTITUDES.

ED 013 113
BROOKS, WALTER L., KIELBART, RONALD F.
INSTITUTING A FIRE SCIENCE PROGRAM AT SHASTA COLLEGE.
PUB DATE JUN 67
EDRS PRICE MF-$0.25 HC-$1.80 34P.

DESCRIPTORS— *FIRE SCIENCE EDUCATION, *JUNIOR COLLEGES, *OCCUPATIONAL SURVEYS, CALIFORNIA, PROGRAM DEVELOPMENT, PROGRAM PLANNING, REDDING, VOCATIONAL EDUCATION.

ED 013 198
HURD, PAUL DE HART ROWE, MARY BUDD
SCIENCE IN THE SECONDARY SCHOOL
PUB DATE JUN 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM, *SCIENCE EDUCATION, *SECONDARY SCHOOL SCIENCE, ACADEMIC ACHIEVEMENT, AUDIOVISUAL AIDS, BIBLIOGRAPHIES, BIOLOGY, CHEMISTRY, EARTH SCIENCE, FACILITIES, INSTRUCTION, LEARNING THEORIES, PHYSICS, TEACHING METHODS.

ED 013 199
WORLD GUIDE TO SCIENCE INFORMATION AND DOCUMENTATION SERVICES.
UNITED NATIONS EDUCATIONAL SCIENTIFIC AND CULT. ORG.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DIRECTORIES, *INFORMATION CENTERS, *INFORMATION DISSEMINATION, *NATURAL SCIENCES, DOCUMENTATION, ENGLISH, FRENCH, INFORMATION RETRIEVAL, INFORMATION STORAGE, LIBRARIES, UNITED NATIONS EDUCATIONAL SCIENTIFIC AND CULTURAL ORGANIZATION (UNESCO).

ED 013 200
BARTLETT, C. J. EDGERTON, HAROLD A.
DIMENSIONS OF SUMMER SCIENCE TRAINING PROGRAMS AS REFLECTED BY THEIR PARTICIPANTS.
PUB DATE FEB 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *PROGRAM EVALUATION, *SCIENCE PROGRAMS, *SECONDARY SCHOOL SCIENCE, *STUDENT CHARACTERISTICS, NATIONAL SCIENCE FOUNDATION, SCIENCE INSTITUTES, SCIENTIFIC MANPOWER, STUDENT INTERESTS, SUMMER SCIENCE TRAINING PROGRAMS.

ED 013 201
HURLBURT, EVELYN M.
RADIOISOTOPE TECHNIQUES FOR INSTRUCTION IN THE BIOLOGICAL SCIENCES, A LIST OF ANNOTATED REFERENCES.
ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN.
REPORT NUMBER TID-21262-REV
PUB DATE MAR 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES, *BIOLOGY, *COLLEGE SCIENCE, *RADIATION BIOLOGY, *RADIOISOTOPES, BIOLOGICAL SCIENCES CURRICULUM STUDY, JUNIOR COLLEGES, LABORATORY EXPERIMENTS, SECONDARY SCHOOL SCIENCE, UNITED STATES ATOMIC ENERGY COMMISSION.

ED 013 202
SORENSEN, LAVAR LEONARD
CHANGE IN CRITICAL THINKING BETWEEN STUDENTS IN LABORATORY-CENTERED AND LECTURE-DEMONSTRATION-CENTERED PATTERNS OF INSTRUCTION IN HIGH SCHOOL BIOLOGY.
OREGON STATE UNIV., CORVALLIS
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *BIOLOGY, *CRITICAL THINKING, *LABORATORY PROCEDURES, *SECONDARY SCHOOL SCIENCE, *TEACHING TECHNIQUES, COMPARATIVE ANALYSIS, CORNELL CRITICAL THINKING TEST (FORM X), DOCTORAL THESES, OREGON STATE UNIVERSITY, OTIS QUICK SCORING MENTAL ABILITY TEST (GAMMA FORM AM), ROKEACH DOGMATISM SCALE (FORM E), TEACHING PROCEDURES, TEST ON UNDERSTANDING SCIENCE (FORM W), WATSON GLASER CRITICAL THINKING APPRAISAL (FORM YM).

ED 013 203
REDMAN, L. A.
THE PHYSICS TEACHERS HANDBOOK
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *AUDIOVISUAL AIDS, *COLLEGE SCIENCE, *INSTRUCTIONAL MATERIALS, *PHYSICS, *SECONDARY SCHOOL SCIENCE, EDUCATIONAL PROGRAMS, ENGLAND, FILMS, FILMSTRIPS, NUFFIELD PHYSICS, REFERENCE BOOKS, SCIENCE COURSES, SCIENCE EDUCATION, SCOTLAND, TEXTBOOKS.

ED 013 205
PELLA, MILTON O. ZIEGLER, ROBERT E.
THE USE OF STATIC AND DYNAMIC MECHANICAL MODELS IN TEACHING ASPECTS OF THE THEORETICAL CONCEPT, THE PARTICLE NATURE OF MATTER.
WISCONSIN UNIV., MADISON
PUB DATE MAR 67
EDRS PRICE MF-$0.50 HC-$3.15 61P.

DESCRIPTORS-- *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *MODELS, AUDIOVISUAL AIDS, CENTER FOR COGNITIVE LEARNING, CONCEPT FORMATION, JANESVILLE, LEARNING, MADISON, PHYSICAL SCIENCES, TEACHING PROCEDURES, TEACHING TECHNIQUES, UNITED STATES OFFICE OF EDUCATION, UNIVERSITY OF WISCONSIN, WISCONSIN.

ED 013 206
BUTLER, DELBERT FRANKLIN
A TEST FOR MEASURING SELECTED LIFE SCIENCE CONCEPTS OF ELEMENTARY SCHOOL CHILDREN.
GEORGE PEABODY COLL. FOR TEACHERS, NASHVILLE, TENN.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *TEST CONSTRUCTION, DOCTORAL THESES, GEORGE PEABODY COLLEGE FOR TEACHERS, LIFE SCIENCE CONCEPT TEST, SOCIOECONOMIC INFLUENCES, TEST RELIABILITY, TEST VALIDITY.

ED 013 207
FLOYD, THOMAS WILLIAM
AN ANALYSIS OF THE KNOWLEDGE OF SCIENCE OF PUPILS PRIOR TO INSTRUCTION IN THE SEVENTH GRADE.
ILLINOIS UNIVERSITY, URBANA
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM, *CURRICULUM EVALUATION, *ELEMENTARY SCHOOL SCIENCE, *GRADE 7, *TEXTBOOK EVALUATION, *TEXTBOOKS, DOCTORAL THESES, GRADE 5, GRADE 6, ILLINOIS, INSTRUCTIONAL MATERIALS, SECONDARY SCHOOL SCIENCE.

ED 013 208
LASHIER, WILLIAM STANLEY
AN ANALYSIS OF CERTAIN ASPECTS OF THE VERBAL BEHAVIOR OF STUDENT TEACHERS OF EIGHTH GRADE STUDENTS PARTICIPATING IN A BSCS LABORATORY BLOCK.
TEXAS UNIV., AUSTIN
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *ATTITUDES, *SECONDARY SCHOOL SCIENCE, *STUDENT TEACHERS, *TEACHER BEHAVIOR, *VERBAL BEHAVIOR, BIOLOGICAL SCIENCES CURRICULUM STUDY, BIOLOGY, DOCTORAL THESES, FLANDERS METHOD OF INTERACTION ANALYSIS, GRADE 8, INSTRUCTION, INTERACTION PROCESS ANALYSIS, MICHIGAN STUDENT QUESTIONNAIRE.

ED 013 209
PARAKH, JAL SOHRAB
A STUDY OF TEACHER-PUPIL INTERACTION IN HIGH SCHOOL BIOLOGY CLASSES.
CORNELL UNIV., ITHACA, N.Y.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *INTERACTION PROCESS ANALYSIS, *SECONDARY SCHOOL SCIENCE, *STUDENT CHARACTERISTICS, *TEACHER CHARACTERISTICS, CLASSROOM OBSERVATION, COGNITIVE DEVELOPMENT, DOCTORAL THESES, EVALUATION, LEARNING PROCESSES, NEW YORK, OBSERVATION TECHNIQUES.

ED 013 210
CRAVEN, GENE FRANCIS
CRITICAL THINKING ABILITIES AND UNDERSTANDING OF SCIENCE BY SCIENCE TEACHER-CANDIDATES AT OREGON STATE UNIVERSITY.
OREGON STATE UNIV., CORVALLIS
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CRITICAL THINKING, *SCIENTIFIC ATTITUDES, *SCIENTIFIC CONCEPTS, *TEACHER CHARACTERISTICS, *TEACHER EDUCATION, CORNELL CRITICAL THINKING TEST, DOCTORAL THESES, OREGON STATE UNIVERSITY, SCHOLASTIC APTITUDE TEST, TEST ON UNDERSTANDING SCIENCE.

ED 013 211
JENSEN, JOHN ANDERS
AN ANALYSIS BY CLASS SIZE AND SEX OF ORTHOGONALIZED INTEREST AND APTITUDE PREDICTORS IN RELATION TO HIGH SCHOOL CHEMISTRY ACHIEVEMENT CRITERIA.
ROCHESTER UNIV., N.Y.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *CHEMISTRY, *DOCTORAL THESES, *INSTRUCTION, *LEARNING, *PREDICTION, *RESEARCH METHODOLOGY, *SECONDARY SCHOOL SCIENCE, *STUDENT CHARACTERISTICS, ACADEMIC APTITUDE, CLASS SIZE, NEW YORK STATE REGENTS CHEMISTRY EXAMINATION, SEX (CHARACTERISTICS), STUDENT INTERESTS.

ED 013 212
JONES, HOWARD LEON
THE DEVELOPMENT OF A TEST OF SCIENTIFIC INQUIRY, USING THE TAB FORMAT, AND AN ANALYSIS OF ITS RELATIONSHIP TO SELECTED STUDENT BEHAVIORS AND ABILITIES.
TEXAS UNIV., AUSTIN
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DOCTORAL THESES, *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *STUDENT CHARACTERISTICS, *TEST CONSTRUCTION, *TESTS, ACADEMIC ACHIEVEMENT, GRADE 4, GRADE 5, GRADE 6, SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS TEST, STUDENT ABILITY, STUDENT BEHAVIOR, TAB SCIENCE TEST.

ED 013 213
MENEFEE, ROBERT WILLIAM
MEASURING ELEMENTARY SCHOOL CHILDREN'S ABILITY TO USE EVIDENCE FROM SCIENTIFIC INSTRUMENTS IN DECISION-MAKING SITUATIONS.
OHIO STATE UNIV., COLUMBUS
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONCEPT FORMATION, *DECISION MAKING, *DOCTORAL THESES, *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *LEARNING, *PROBLEM SOLVING, *SCIENCE EQUIPMENT, *SCIENTIFIC CONCEPTS, PIAGET.

ED 013 214
NEUBERGER, HANS NICHOLAS, GEORGE
MANUAL OF LECTURE DEMONSTRATIONS, LABORA-

TORY EXPERIMENTS, AND OBSERVATIONAL EQUIPMENT FOR TEACHING ELEMENTARY METEOROLOGY IN SCHOOLS AND COLLEGES.
PENNSYLVANIA STATE UNIV., UNIVERSITY PARK
PUB DATE AUG 62
EDRS PRICE MS-$0.75 HC-$9.55 189P.

DESCRIPTORS— *COLLEGE SCIENCE, *METEOROLOGY, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, EARTH SCIENCE, MODELS, NATIONAL SCIENCE FOUNDATION, PENNSYLVANIA, PENNSYLVANIA STATE UNIVERSITY, SCIENCE DEMONSTRATIONS, SCIENCE EQUIPMENT, SCIENCE EXPERIMENTS, TEACHING TECHNIQUES, UNIVERSITY PARK.

ED 013 215
MAYER, WILLIAM V. AND OTHERS
BIOLOGICAL SCIENCES CURRICULUM STUDY NEWSLETTER.
BIOLOGICAL SCIENCES CURRICULUM STUDY, BOULDER, COLO.
PUB DATE JAN 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *EVALUATION, *SECONDARY SCHOOL SCIENCE, *TEACHER BEHAVIOR, BIBLIOGRAPHIES, BIOLOGICAL SCIENCES CURRICULUM STUDY, COMPREHENSIVE FINAL EXAMINATION (BSCS), CURRICULUM DEVELOPMENT, CURRICULUM EVALUATION, DIFFERENTIAL APTITUDE TESTS, NEWSLETTERS, SCIENCE COURSE IMPROVEMENT PROJECT, STUDENT BEHAVIOR, THE PSYCHOLOGICAL CORPORATION.

ED 013 216
NICODEMUS, ROBERT B.
COOPERATIVE COLLEGE-SCHOOL SCIENCE PROJECT— FIRST, SECOND, AND THIRD YEAR REPORTS.
WASHINGTON ACADEMY OF SCIENCES, WASHINGTON, D. C.
PUB DATE JUL 67
EDRS PRICE MF-$0.50 HC-$6.40 126P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, BIOLOGICAL SCIENCES CURRICULUM STUDY, BIOLOGY, COOPERATIVE COLLEGE SCHOOL SCIENCE PROGRAM, ELEMENTARY SCIENCE STUDY, INSERVICE TEACHER EDUCATION, NATIONAL SCIENCE FOUNDATION, PROGRAM DESCRIPTIONS, SCIENCE A PROCESS APPROACH, SCIENCE TEACHERS.

ED 013 217
RIPPLE, RICHARD E. ROCKCASTLE, VERNE N.
PIAGET REDISCOVERED—SELECTED PAPERS FROM A REPORT OF THE CONFERENCE OF COGNITIVE STUDIES AND CURRICULUM DEVELOPMENT (MARCH 1964).
NATIONAL ASSN. FOR RESEARCH IN SCIENCE TEACHING.
PUB DATE 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COGNITIVE DEVELOPMENT, *CONFERENCES, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *INTELLECTUAL DEVELOPMENT, *LEARNING PROCESSES, *LEARNING THEORIES, *SECONDARY SCHOOL SCIENCE, BIBLIOGRAPHIES, CORNELL UNIVERSITY, ELEMENTARY SCHOOL SCIENCE PROJECT, NATIONAL SCIENCE FOUNDATION, PIAGET, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE CURRICULUM IMPROVEMENT STUDY, UNITED STATES OFFICE OF EDUCATION, UNIVERSITY OF CALIFORNIA.

ED 013 218
PHYSICS TODAY—INTRODUCTORY PHYSICS EDUCATION.
PUB DATE MAR 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM DEVELOPMENT, *PHYSICAL SCIENCES, *PHYSICS, *SECONDARY SCHOOL SCIENCE, BERKELEY PHYSICS COURSE, COMMISSION ON COLLEGE PHYSICS, ENGINEERING CONCEPTS CURRICULUM PROJECT, ENGLAND, HARVARD PROJECT PHYSICS, INTRODUCTORY PHYSICAL SCIENCE, NUFFIELD PROJECT, PHYSICAL SCIENCE FOR NON SCIENCE STUDENTS, PHYSICAL SCIENCE STUDY COMMITTEE, SCIENCE COURSE IMPROVEMENT PROJECT, STUDENT ENROLLMENT.

ED 013 219
STOLLER, DAVID S.
REPORT ON THE ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENTS SYMPOSIUM ON THE APPLICATION OF OPERATIONS ANALYSIS TO EDUCATIONAL PROBLEMS (OSLO, SEPTEMBER 28—30, 1966). NATIONAL CENTER FOR EDUCATIONAL STATISTICS DHEW
REPORT NUMBER TN-6
PUB DATE OCT 66
EDRS PRICE MF-$0.25 HC-$0.35 5P.

DESCRIPTORS— *CONFERENCE REPORTS, *EDUCATIONAL RESEARCH, *RESEARCH METHODOLOGY, *SYSTEMS ANALYSIS. ECONOMICS. EDUCATIONAL ADMINISTRATION. EDUCATIONAL PROBLEMS. EVALUATION. NATIONAL CENTER FOR EDUCATIONAL STATISTICS. NORWAY. OPERATIONS ANALYSIS. ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENT. OSLO. UNITED STATES OFFICE OF EDUCATION.

ED 013 220
RICHARDSON, JOHN S. HOWE, ROBERT W.
THE ROLE OF CENTERS FOR SCIENCE EDUCATION IN THE PRODUCTION. DEMONSTRATION. AND DISSEMINATION OF RESEARCH.
OHIO STATE UNIV.. COLUMBUS. RESEARCH FOUNDATION
REPORT NUMBER CRP-Y-002
PUB DATE 66
EDRS PRICE MF-$0.75 HC-$6.80 134P.

DESCRIPTORS— *CONFERENCES. *RESEARCH METHODOLOGY. *SCIENCE EDUCATION. *SCIENCE EDUCATION CENTERS. COLUMBUS. EDUCATIONAL PROBLEMS. EDUCATIONAL RESEARCH. OHIO. OHIO STATE UNIVERSITY. RESEARCH PROBLEMS. RESEARCHERS. UNITED STATES OFFICE OF EDUCATION.

ED 013 221
THE ART OF QUESTIONING IN SCIENCE. SUMMARY AND IMPLICATIONS.
LOS ANGELES CITY SCHOOLS. CALIFORNIA
REPORT NUMBER LACS-IB-EC-131
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$1.70 32P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE. *QUESTIONING, TECHNIQUES. *TEACHING TECHNIQUES. BLOOMS TAXONOMY OF EDUCATIONAL OBJECTIVES. CALIFORNIA. INSTRUCTION. LOS ANGELES CITY SCHOOLS. PROBLEM SOLVING. TEACHING GUIDES.

ED 013 222
MELLON, M. G.
CHEMICAL PUBLICATIONS. THEIR NATURE AND USE.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CHEMISTRY. *COLLEGE SCIENCE. *LIBRARY INSTRUCTION. *REFERENCE MATERIALS. BIBLIOGRAPHIES. DICTIONARIES. DIRECTORIES. DOCTORAL THESES. ENCYCLOPEDIAS. PERIODICALS. TEXTBOOKS.

ED 013 225
LEE. PHILIP R. AND OTHERS
CONFERENCE ON ALCOHOL EDUCATION (WASHINGTON. D. C.. MARCH 29. 1966).
DEPARTMENT OF HEALTH. EDUCATION AND WELFARE
PUB DATE MAR 66
EDRS PRICE MF-$0.50 HC-$3.85 75P.

DESCRIPTORS— *BIOLOGY. *CONFERENCE REPORTS. *ELEMENTARY EDUCATION. *HEALTH EDUCATION. *SECONDARY EDUCATION. ALCOHOL EDUCATION. EDUCATIONAL OBJECTIVES. INSTRUCTION. TEACHER EDUCATION. UNITED STATES DEPARTMENT OF HEALTH EDUCATION. AND WELFARE.

ED 013 226
YATES. B.
HOW TO FIND OUT ABOUT PHYSICS.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS

DESCRIPTORS— *COLLEGE SCIENCE. *PHYSICS. *SECONDARY SCHOOL SCIENCE. BIOGRAPHIES. DICTIONARIES. ENCYCLOPEDIAS. INFORMATION CENTERS. SCIENCE CAREERS. TEXTBOOKS.

ED 013 275
HABER. LOUIS
THE ROLE OF THE AMERICAN NEGRO IN THE FIELDS OF SCIENCE. FINAL REPORT.
REPORT NUMBER BR-6-8353
PUB DATE SEP 66
EDRS PRICE MF-$0.50 HC-$3.65 71P.

DESCRIPTORS— *NEGROES. *PILOT PROJECTS. *RESOURCE MATERIALS. *SCIENCES. BIBLIOGRAPHIES. BIOGRAPHIES. BIOLOGY. CHEMISTRY. CURRICULUM DEVELOPMENT. PHYSICIANS.

ED 013 295
USING SOIL AND OTHER PLANT GROWING MEDIA EFFECTIVELY. HORTICULTURE-SERVICE OCCUPATIONS. MODULE NO. 5.
OHIO STATE UNIV.. COLUMBUS. CENTER FOR VOC. EDUC.
REPORT NUMBER OSU-AGDEX-200-017-5
PUB DATE AUG 65
EDRS PRICE MF-$0.50 HC-$5.95 117P.

DESCRIPTORS— *HORTICULTURE. *ORNAMENTAL HORTICULTURE OCCUPATION. *SOIL SCIENCE. *TEACHING GUIDES. *VOCATIONAL AGRICULTURE. BIBLIOGRAPHIES. HIGH SCHOOLS. UNITS OF STUDY (SUBJECT FIELDS).

ED 013 664
LIPSON, JOSEPH I.
AN INDIVIDUALIZED SCIENCE LABORATORY.
PITTSBURGH UNIV., PA., LEARNING RES. AND DEV. CTR.
REPORT NUMBER UP-RD-CTR-REPRINT-17
PUB DATE DEC 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INDIVIDUAL INSTRUCTION, *PRIMARY GRADES, *SCIENCE CURRICULUM, *SCIENCE LABORATORIES, AAAS, PENNSYLVANIA, PITTSBURGH, PROGRAMED TEXTS, SCIENCE EQUIPMENT, SCIENCE PROGRAMS, SCIS.

ED 013 707
PENROSE, ROBERT AND OTHERS
READING FOR THE GIFTED—GUIDED EXTENSION OF READING SKILLS THROUGH LITERATURE, PART 2, APPRECIATING THE CONTRIBUTIONS OF SCIENCE THROUGH BIOGRAPHY.
LOS ANGELES CITY SCHOOLS, CALIF.
REPORT NUMBER LACS-INSTR-BULL-EC-118
PUB DATE 66
EDRS PRICE MF-$0.50 HC-$5.15 101P.

DESCRIPTORS— *GIFTED, *READING INSTRUCTION, *SCIENCE EDUCATION, *TEACHING GUIDES, BIOGRAPHIES, GRADE 5, GRADE 6, LITERATURE APPRECIATION, LOS ANGELES CITY SCHOOLS, SCIENCE MATERIALS.

ED 013 752
MC ELHINEY, DAVID STANLEY
AN EVALUATION OF NINTH-GRADE SCIENCE FOR THE ACADEMICALLY TALENTED.
OKLAHOMA STATE UNIV., STILLWATER, GRAD. SCHOOL
PUB DATE AUG 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ABLE STUDENTS, *GRADE 9, SECONDARY SCHOOL SCIENCE, *STUDENT SCIENCE INTERESTS, BIOLOGY, EARTH SCIENCE, GENERAL SCIENCE, IOWA TEST OF EDUCATIONAL DEVELOPMENT, KUDER INTEREST INVENTORY, PHYSICAL SCIENCES, SCIENCE CAREERS, SECONDARY SCHOOL STUDENTS.

ED 013 753
BEARDSLEY, EDWARD H.
THE RISE OF THE AMERICAN CHEMISTRY PROFESSION, 1850—1900.
PUB DATE 64
EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS. 84P.

DESCRIPTORS— *CHEMISTRY, *COLLEGE SCIENCE, *CURRICULUM, *PROFESSIONAL ASSOCIATIONS, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, AMERICAN CHEMICAL SOCIETY, BIBLIOGRAPHIES, COLLEGES, GERMANY, HIGHER EDUCATION, UNITED STATES, UNIVERSITIES.

ED 013 754
HURLBURT, EVELYN M.
RADIOISOTOPE EXPERIMENTS IN HIGH SCHOOL BIOLOGY, AN ANNOTATED SELECTED BIBLIOGRAPHY.
ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN.
PUB DATE SEP 66
EDRS PRICE MF-$0.25 HC-$1.30 24P.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES, *BIOLOGY, *INSTRUCTIONAL MATERIALS, *RADIATION BIOLOGY, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, CHEMISTRY, PHYSICS, RADIOISOTOPES, REFERENCE MATERIALS, UNITED STATES ATOMIC ENERGY COMMISSION.

ED 013 755
A SUGGESTED CHECKLIST FOR ASSESSING A SCIENCE PROGRAM.
OFFICE OF EDUCATION, WASHINGTON, D.C.
REPORT NUMBER OE-29034-A
PUB DATE JAN 64
EDRS PRICE MF-$0.25 HC-$1.10 20P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM EVALUATION, *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *EVALUATION TECHNIQUES, *PROGRAM EVALUATION, *SECONDARY SCHOOL SCIENCE, SELECTED SCIENCE SERVICES, UNITED STATES OFFICE OF EDUCATION.

ED 013 756
ACKERSON, PAUL BERNDT
A STUDY OF THE RELATIONSHIP BETWEEN ACHIEVEMENT IN PSSC PHYSICS AND EXPERIENCE IN RECENTLY DEVELOPED COURSES IN SCIENCE AND MATHEMATICS.
OKLAHOMA STATE UNIV., STILLWATER, AGRIC.-APPL. SCI.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *PHYSICS, *SECONDARY SCHOOL SCIENCE, BIOLOGICAL SCIENCES CURRICULUM STUDY, BIOLOGY, CHEMICAL BONDING, CHEMICAL EDUCATION MATERIALS STUDY, CHEMISTRY, DOCTORAL THESES, MATHEMATICS, PHYSICAL

SCIENCE STUDY COMMITTEE, PREDICTION, SCHOOL MATHEMATICS STUDY GROUP.

ED 013 757
BERRY, WILLIAM E.
THE COMPARATIVE EFFECTS OF PSSC PHYSICS AND TRADITIONAL PHYSICS ON STUDENT ACHIEVEMENT.
ARIZONA STATE UNIV., TEMPE
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *CURRICULUM DEVELOPMENT, *DOCTORAL THESES, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *STUDENT CHARACTERISTICS, COMPARATIVE ANALYSIS, COOPERATIVE PHYSICS TEST, PHYSICAL SCIENCE STUDY COMMITTEE, PHYSICAL SCIENCE STUDY COMMITTEE FINAL EXAMINATION.

ED 013 758
ARVEY, M. DALE RIEMER, WILLIAM J.
INLAND BIOLOGICAL FIELD STATIONS OF THE UNITED STATES.
AMERICAN INST. OF BIOLOGICAL SCIENCES
PUB DATE APR 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *FIELD INSTRUCTION, *OUTDOOR EDUCATION, *SCIENCE FACILITIES, COLLEGE SCIENCE, DIRECTORIES, ECOLOGY, NATIONAL SCIENCE FOUNDATION, RESEARCH.

ED 013 759
SHOWALTER, VICTOR M. SLESNICK, IRWIN L.
IDEAS FOR SCIENCE INVESTIGATIONS
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS, *SCIENCE ACTIVITIES, *SCIENCE PROJECTS, *SECONDARY SCHOOL SCIENCE, *STUDENT RESEARCH, BIOLOGY, CHEMISTRY, NATIONAL SCIENCE TEACHERS ASSOCIATION, PHYSICS.

ED 013 760
SCIENCE COURSE IMPROVEMENT PROJECTS. 2, SCIENCE TEACHING EQUIPMENT.
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
REPORT NUMBER NSF-63-15
PUB DATE MAY 63
EDRS PRICE MF-$0.25 HC-$2.60 59P.

DESCRIPTORS— *COLLEGE SCIENCE, *SCIENCE EQUIPMENT, *SECONDARY SCHOOL SCIENCE, ANTHROPOLOGY, AUDIOVISUAL AIDS, BIOLOGY, CHEMISTRY, EARTH SCIENCE, ELEMENTARY SCHOOL SCIENCE, ENGINEERING, LABORATORY EQUIPMENT, MATHEMATICS, METEOROLOGY, MODELS, NATIONAL SCIENCE FOUNDATION, PSYCHOLOGY, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE TEACHING EQUIPMENT DEVELOPMENT PROGRAM.

ED 013 761
HEDGES, WILLIAM D.
TESTING AND EVALUATION FOR THE SCIENCES IN THE SECONDARY SCHOOL.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *EVALUATION, *SECONDARY SCHOOL SCIENCE, *TEST CONSTRUCTION, *TESTS, BIBLIOGRAPHIES, BIOLOGY, CHEMISTRY, GENERAL SCIENCE, PHYSICS, STUDENT EVALUATION, TAXONOMY OF EDUCATIONAL OBJECTIVES.

ED 013 762
TAYLOR, CALVIN W.
THE 1957 UNIVERSITY OF UTAH RESEARCH CONFERENCE ON THE IDENTIFICATION OF CREATIVE SCIENTIFIC TALENT (2D, BRIGHTON, UTAH, AUGUST 17-20, 1957).
PUB DATE 58
EDRS PRICE MF-$1.00 HC-$13.40 266P.

DESCRIPTORS— *CONFERENCE REPORTS, *CREATIVITY, *LEARNING THEORIES, *RESEARCH REVIEWS (PUBLICATIONS), *SCIENCE EDUCATION, *SCIENTIFIC MANPOWER, ABILITY, CONCEPT MASTERY TEST, CULTURAL FACTORS, ENGINEERING, INTELLIGENCE, INTELLIGENCE FACTORS, INTERESTS, NATIONAL SCIENCE FOUNDATION, OFFICE OF NAVAL RESEARCH, PERSONALITY, PROBLEM SOLVING, SCIENTISTS, STANFORD UNIVERSITY, TALENT IDENTIFICATION, UNIVERSITY OF UTAH, VERBAL ABILITY.

ED 013 763
LOMBARD, JOHN W. OWEN, WILLIAM B.
OBJECTIVES OF SCIENCE EDUCATION, COMPILED AS A GUIDE TO THE DEVELOPMENT OF AN ASSESSMENT PROGRAM IN SCIENCE EDUCATION.
SCIENCE RESEARCH ASSOCIATES INC., CHICAGO, ILL.
PUB DATE DEC 65
EDRS PRICE MF-$0.25 HC-$2.75 53P.

DESCRIPTORS— *EDUCATIONAL OBJECTIVES, *SCIENCE EDUCATION, *SCIENTIFIC ATTITUDES, *SECONDARY SCHOOL SCIENCE, BIBLIOGRAPHIES, CARNEGIE FOUNDATION, COLLEGE SCIENCE, CURRICULUM EVALUATION, ELEMENTARY SCHOOL SCIENCE, EVALUATION, SCIENTIFIC LITERACY, TAXONOMY OF EDUCATIONAL OBJECTIVES.

ED 013 764
TEACHER'S SOURCEBOOK FOR EXPLORING THE WORLD OF SCIENCE, AN INSTRUCTIONAL PROGRAM FOR THE PRIMARY GRADES USING TELEVISION.
NORTH CAROLINA STATE BOARD OF EDUCATION, RALEIGH
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$4.30 84 P.

DESCRIPTORS— *EDUCATIONAL PROGRAMS, *EDUCATIONAL TELEVISION, *ELEMENTARY SCHOOL SCIENCE, BIOLOGY, EARTH SCIENCE, PHYSICAL SCIENCES, PRIMARY GRADES, TEACHER SOURCEBOOKS, TELEVISION.

ED 013 765
CORRELL, MALCOM STRASSENBURG, ARNOLD A.
THE PROCEEDINGS OF THE BOULDER CONFERENCE ON PHYSICS FOR NONSCIENCE MAJORS (BOULDER, COLORADO, JULY 20—29, 1964).
COMMISSION ON COLLEGE PHYSICS, ANN ARBOR, MICH.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CONFERENCE REPORTS, *CURRICULUM, *PHYSICS, *SCIENCE COURSES, BIBLIOGRAPHIES, BOULDER, CHEMISTRY, COLORADO, COMMISSION ON COLLEGE PHYSICS, COURSE CONTENT, COURSE ORGANIZATION, EDUCATIONAL PROBLEMS, LABORATORY PROCEDURES, NATIONAL SCIENCE FOUNDATION, NATURAL SCIENCES, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, TEACHING PROCEDURES, UNIVERSITY OF COLORADO.

ED 013 766
ELLIS, SUSANNE D. MAGUIRE, CLARE-BETH
PHYSICS MANPOWER 1966—EDUCATION AND EMPLOYMENT STATISTICS.
AMERICAN INST. OF PHYSICS, NEW YORK, N.Y.
REPORT NUMBER AIP-PUB-R-196
PUB DATE NOV 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *EMPLOYMENT STATISTICS, *PHYSICS, *SCIENTIFIC MANPOWER, *SCIENTISTS, *SECONDARY SCHOOL SCIENCE, AMERICAN INSTITUTE OF PHYSICS, DROPOUTS, ENROLLMENT, ENROLLMENT TRENDS, GRADUATE STUDY, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCE STUDY COMMITTEE, SALARIES, STATISTICAL DATA, SURVEYS, TEACHERS, UNDERGRADUATE STUDY.

ED 013 767
TAYLOR, CALVIN W. BARRON, FRANK
SCIENTIFIC CREATIVITY—ITS RECOGNITION AND DEVELOPMENT.
PUB DATE 63
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CREATIVITY, *LEARNING THEORIES, *TALENT IDENTIFICATION, BIBLIOGRAPHIES, CONFERENCE REPORTS, EDUCATIONAL RESEARCH, NATIONAL SCIENCE FOUNDATION, NATURAL SCIENCES, TALENT DEVELOPMENT, UNIVERSITY OF UTAH.

ED 014 193 56
MALLINSON, GEORGE G.
PROGRAMMED LEARNING MATERIALS FOR THE BLIND.
WESTERN MICHIGAN UNIV., KALAMAZOO
REPORT NUMBER BR-5-0758
PUB DATE MAR 67
CONTRACT OEC-7-32-0580-191
EDRS PRICE MF-$0.50 HC-$4.35 85P.

DESCRIPTORS— *BLIND, *BRAILLE, *PROGRAMED INSTRUCTION, *SCIENCE EDUCATION, ADOLESCENTS, INSTRUCTIONAL MATERIALS, JUNIOR HIGH SCHOOL STUDENTS, LEARNING PROCESSES, PROGRAMED MATERIALS, SCIENCE INSTRUCTION, SCIENCE MATERIALS, SCIENCE PROGRAMS, STIMULUS DEVICES.

ED 014 216
TSUJI, ISAO
THE EFFECT OF TV SCHOOL BROADCAST ON CHILDREN IN ISOLATED VILLAGES.
NHK RADIO AND TV CULTURE RESEARCH INST.
PUB DATE 64
EDRS PRICE MF-$0.25 HC-$1.15 21P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, *GRADE 5, *INSTRUCTIONAL TELEVISION, *SOCIAL STUDIES, CONVENTIONAL INSTRUCTION, CULTURAL ISOLATION, EXPERIMENTS, INTELLIGENCE TESTS, JAPAN, JAPAN BROADCASTING CORPORATION, PRIMARY EDUCATION, RURAL EDUCATION.

ED 014 219
FILEP, ROBERT T. MURPHY, D. BRIAN
COMPUTER-ASSISTED LEARNING FOR IN-SERVICE TEACHER EDUCATION.
SYSTEM DEVELOPMENT CORP., SANTA MONICA, CALIF.
REPORT NUMBER TM-(L)-3494
PUB DATE 15 MAY 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACHIEVEMENT GAINS, *BIOLOGY INSTRUCTION, *COMPUTER ASSISTED INSTRUCTION, *FIELD STUDIES, *INSERVICE TEACHER EDUCATION, ALBANY, NEW YORK.

ED 014 380
MALLINSON, GEORGE G.
TEACHING THE ESSENTIAL READING SKILLS IN SCIENCE.
PUB DATE 5 MAY 67
EDRS PRICE MF-$0.25 HC-$0.85 15P.

DESCRIPTORS— *CONTENT READING, *ELEMENTARY SCIENCE, *READING SKILLS, BOOKS, COMMUNICATIONS, INFORMATION SOURCES, PERCEPTION, POPULATION GROWTH, TECHNOLOGICAL ADVANCEMENT.

ED 014 418
ILLUSTRATIONS OF RADIOISOTOPES—DEFINITIONS AND APPLICATIONS.
ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN.
PUB DATE 65
EDRS PRICE MF-$0.75 HC-$8.35 165P.

DESCRIPTORS— *ILLUSTRATIONS, *INSTRUCTIONAL MATERIALS, *RADIOISOTOPES, *SCIENCE MATERIALS, *SECONDARY SCHOOL SCIENCE, *TRANSPARENCIES, AGRICULTURE, ATOMIC ENERGY COMMISSION, AUDIOVISUAL AIDS, BIOLOGY, CHEMISTRY, INDUSTRY, OAK RIDGE, PHYSICAL SCIENCES, PHYSICS, TECHNOLOGY, TENNESSEE.

ED 014 420
DECKER, MARTIN GEORGE
THE DIFFERENTIAL EFFECTS UPON THE LEARNING OF THE NATURAL SCIENCES BY FIFTH GRADERS OF TWO MODES OF TEACHING OVER TELEVISION AND IN THE CLASSROOM.
BOSTON UNIV., MASS., SCH. OF EDUCATION.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACHIEVEMENT, *DOCTORAL THESES, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *PROBLEM SOLVING, BOSTON, COMPARATIVE ANALYSIS, GRADE 5, INSTRUCTIONAL TELEVISION, LEARNING, MASSACHUSETTS, MINNESOTA TEACHER ATTITUDE INVENTORY, NATURAL SCIENCES, TELEVISION.

ED 014 421
LIPPINCOTT, W. T. BRASTED, R. C.
MODERN TEACHING AIDS FOR COLLEGE CHEMISTRY—
PORTABLE VIDEO RECORDING SYSTEMS, NEW USES FOR FILMS, COMPUTER ASSISTED INSTRUCTION.
ADVISORY COUNCIL ON COLL. CHEMISTRY
REPORT NUMBER ACCC-TAC-SER-PUB-18
PUB DATE DEC 66
EDRS PRICE MF-$0.25 HC-$2.80 54P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *CHEMISTRY, *COLLEGE SCIENCE, *CONFERENCE REPORTS, *INSTRUCTION, ADVISORY COUNCIL ON COLLEGE CHEMISTRY, BIBLIOGRAPHIES, COMPUTER ASSISTED INSTRUCTION, EDUCATIONAL TELEVISION, FILMS, PROJECTION EQUIPMENT, STANFORD UNIVERSITY, TELEVISION.

ED 014 422 24
MAGAT, PHYLLIS L. MILLER, WILFRED H., JR.
DEVELOPMENT OF INSTRUCTIONAL MATERIALS FOR A FUSED CHEMISTRY-PHYSICS COURSE. FINAL REPORT.
ALFRED I. DUPONT SCHOOL DISTRICT, WILMINGTON, DEL.
REPORT NUMBER BR-6-8448
PUB DATE MAY 67
CONTRACT OEC-1-6-068448-1683
EDRS PRICE MF-$0.50 HC-$4.50 88P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *INSTRUCTIONAL MATERIALS, *PHYSICS, *SCIENCE COURSES, *SECONDARY SCHOOL SCIENCE, ABLE STUDENTS, CHEMISTRY, CURRICULUM, CURRICULUM GUIDES, DELAWARE, FACTOR ANALYSIS, FUSED CHILD DEVELOPMENT, HEAD START, METHODS, PSI, TEAM TEACHING, WILMINGTON.

ED 014 423
VAN DEVENTER, W. C.
MICHIGAN SCIENCE CURRICULUM COMMITTEE JUNIOR HIGH SCHOOL PROJECT. (TITLE SUPPLIED).
PUB DATE 67
EDRS PRICE MF-$1.25 HC-$14.70 292P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ECOLOGY, *INQUIRY TRAINING, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING METHODS, *UNIFIED SCIENCE, BIOLOGY, CHEMISTRY, CONCEPT TEACHING, EARTH SCIENCE, EDUCATIONAL OBJECTIVES, EVALUATION, GENERAL SCIENCE, GRADE 7, INSTRUCTIONAL MATERIALS, PHYSICAL SCIENCES, SCIENCE COURSE IMPROVEMENT PROJECT, TEACHING GUIDES.

ED 014 424
OSHIMA, EUGENE AKIO
CHANGES IN ATTITUDES TOWARD SCIENCE AND CONFIDENCE IN TEACHING SCIENCE OF PROSPECTIVE ELEMENTARY TEACHERS.
OKLAHOMA STATE UNIV., STILLWATER, GRAD. SCHOOL
PUB DATE JUL 66
EDRS PRICE MF-$0.50 HC-$5.20 102P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, *METHODS COURSES, *TEACHER EDUCATION, *UNDERGRADUATE STUDY, BIOLOGY, COMPARATIVE ANALYSIS, DOCTORAL THESES, EDUCATIONAL OBJECTIVES, FEMALES, INSTRUCTION, OKLAHOMA, OKLAHOMA STATE UNIVERSITY, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENTIFIC LITERACY, STILLWATER, STUDENT BEHAVIOR, STUDENT TEACHING, TEACHER ATTITUDES, TEACHER CHARACTERISTICS, TEACHING METHODS.

ED 014 425
LYONS, RAYMOND F.
PROBLEMS AND STRATEGIES OF EDUCATIONAL PLANNING—LESSONS FROM LATIN AMERICA.
UNITED NATIONS EDUCATIONAL SCIENTIFIC AND CULT. ORG.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DEVELOPING NATIONS, *EDUCATIONAL IMPROVEMENT, *EDUCATIONAL PLANNING, *EDUCATIONAL PROGRAMS, *INTERNATIONAL EDUCATION, *MANPOWER DEVELOPMENT, ADMINISTRATIVE ORGANIZATION, ADULT EDUCATION, AGRICULTURAL EDUCATION, CONFERENCE REPORTS, ECONOMIC DEVELOPMENT, EDUCATIONAL NEEDS, EDUCATIONAL PROBLEMS, ELEMENTARY EDUCATION, HIGHER EDUCATION, INTERNATIONAL INSTITUTE FOR EDUCATIONAL PLANNING, LATIN AMERICA, SCIENCE EDUCATION, SECONDARY EDUCATION, SOCIAL CHANGE, SOCIAL DEVELOPMENT, SOCIAL PROBLEMS.

ED 014 426
MATTHEWS, WILLIAM H., III
SOURCES OF EARTH SCIENCE INFORMATION
REPORT NUMBER RS-1
PUB DATE MAR 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DIRECTORIES, *EARTH SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *INFORMATION SOURCES, *SCIENCE FACILITIES, *SECONDARY SCHOOL SCIENCE, ASTRONOMY, CANADA, COLLEGE SCIENCE, COLLEGES, EARTH SCIENCE CURRICULUM PROJECT, GEOLOGY, METEOROLOGY, MUSEUMS, OCEANOLOGY, PHYSICAL GEOGRAPHY, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE PROJECTS.

ED 014 427
WEAVER, CHARLES E.
PROCEEDINGS OF THE CONFERENCE ON THE CHANGING IDENTITY OF GRADUATE EARTH SCIENCE EDUCATION (ATLANTA, JANUARY 25—26, 1965).
GEORGIA INST. OF TECHNOLOGY, ATLANTA
PUB DATE 65
EDRS PRICE MF-$0.75 HC-$9.30 184P.

DESCRIPTORS— *COLLEGE SCIENCE, *EARTH SCIENCE, *EDUCATIONAL PROGRAMS, *GRADUATE STUDY, *HIGHER EDUCATION, BIBLIOGRAPHIES, CONFERENCE REPORTS, EDUCATIONAL NEEDS, GEOLOGY, METEOROLOGY, NATIONAL SCIENCE FOUNDATION, OCEANOLOGY, PROFESSIONAL EDUCATION, TEACHER EDUCATION.

ED 014 428 24
ENGELMANN, SIEGFRIED GALLAGHER, JAMES J.
A STUDY OF HOW A CHILD LEARNS CONCEPTS ABOUT CHARACTERISTICS OF LIQUID MATERIALS. FINAL REPORT.
ILLINOIS UNIV., URBANA, INST. RES. EXCEPT. CHILDREN
REPORT NUMBER CRP-S-268
REPORT NUMBER BR-5-8041
PUB DATE NOV 66
CONTRACT OEC-5-10-352
EDRS PRICE MF-$0.50 HC-$3.40 66P.

DESCRIPTORS— *COGNITIVE DEVELOPMENT, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *LEARNING THEORIES, *READINESS (MENTAL), COGNITIVE PROCESSES, GRADE 1, ILLINOIS, KINDERGARTEN, MATURATION, PEABODY PICTURE VOCABULARY TEST, PIAGET, URBANA.

ED 014 429 24
DRENCHKO, ELIZABETH K.
THE COMPARATIVE EFFECTIVENESS OF TWO METHODS OF TEACHING GRADE SCHOOL SCIENCE.
RUTGERS, THE STATE UNIV., NEW BRUNSWICK, N.J.
REPORT NUMBER CRP-S-351
REPORT NUMBER BR-5-8054
PUB DATE 66
EDRS PRICE MF-$0.50 HC-$5.10 100P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *EFFECTIVE TEACHING, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *TEACHING METHODS, BIBLIOGRAPHIES, BIOLOGY, COMPARATIVE ANALYSIS, CONCEPT FORMATION, EARTH SCIENCE, EDUCATIONAL OBJECTIVES, GENERAL SCIENCE, GRADE 4, PHYSICAL SCIENCES, PROBLEM SOLVING, SEQUENTIAL TEST OF EDUCATIONAL PROGRESS, (SCIENCE TEST FORM 4A), SEQUENTIAL TEST OF EDUCATIONAL PROGRESS (SCIENCE TEST FORM 4B).

ED 014 431
LOCKARD, J. DAVID AND OTHERS
DIRECTORY OF BIOSCIENCE DEPARTMENTS IN THE UNITED STATES AND CANADA.
AMERICAN INST. OF BIOLOGICAL SCIENCES
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *COLLEGE FACULTY, *COLLEGE SCIENCE, *DEGREES (TITLES), *DIRECTORIES, *EDUCATIONAL PROGRAMS, AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, HIGHER EDUCATION, PROGRAM DESCRIPTIONS, SECONDARY SCHOOL SCIENCE, TEACHER EDUCATION.

ED 014 432 24
SMITH, GARY R.
PROBABILITY ESTIMATES OF THE CAPACITIES OF INTERMEDIATE PUPILS TO UNDERSTAND SELECTED PHYSICAL SCIENCE GENERALIZATIONS. FINAL REPORT.
WAYNE STATE UNIV., DETROIT, MICH.
REPORT NUMBER BR-5-1047
PUB DATE AUG 67
CONTRACT OEC-5-10-101
EDRS PRICE MF-$1.75 HC-$23.95 477P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *COMPREHENSION, *CONCEPT FORMATION, *GRADE 4, *GRADE 5, *GRADE 6, *INSTRUCTION, *INSTRUCTIONAL MATERIALS, *LEARNING, *PHYSICAL SCIENCES, *SCIENCE UNITS, *SOCIOECONOMIC INFLUENCES, BIBLIOGRAPHIES, CURRICULUM DEVELOPMENT, DETROIT, ELECTRICITY, HEAT, MICHIGAN, STUDENT CHARACTERISTICS.

ED 014 434 24
JOHNSON, CARL S. DAMBACH, CHARLES A.
CONVERSATION-MATERIALS CONSERVATION, A SURVEY OF PRINTED MATERIALS FOR CONSERVATION EDUCATION.
OHIO STATE UNIV., COLUMBUS, RESEARCH FOUNDATION
REPORT NUMBER CRP-2213
REPORT NUMBER BR-5-1058
PUB DATE 66
EDRS PRICE MF-$1.25 HC-$14.85 295P.

DESCRIPTORS— *CONSERVATION EDUCATION, *INSTRUCTIONAL MATERIALS, ADULT EDUCATION, BIOLOGY, COLLEGE SCIENCE, EARTH SCIENCE, ELEMENTARY SCHOOL SCIENCE, EVALUATION, NATURAL RESOURCES, READABILITY, REFERENCE MATERIALS, SCIENCE MATERIALS, SECONDARY SCHOOL SCIENCE, UNITED STATES OFFICE OF EDUCATION.

ED 014 435
MILLS, THOMAS S. CAIN, ROBERT W.
THE PROSPECTIVE MANPOWER SITUATION FOR SCIENCE AND ENGINEERING STAFF IN UNIVERSITIES AND COLLEGES, 1965—75.
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
REPORT NUMBER NSF-67-11
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$1.65 31P.

DESCRIPTORS— *ENGINEERS, *HIGHER EDUCATION, *MANPOWER UTILIZATION, *SCIENCES, *SCIENTIFIC MANPOWER, *TEACHER SUPPLY AND DEMAND, BACHELORS DEGREES, BIOLOGY, COLLEGE SCIENCE, DOCTORAL DEGREES, ENGINEERING, FEDERAL PROGRAMS, GRADUATE STUDY, INSTRUCTIONAL STAFF, MASTERS DEGREES, MATHEMATICS, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCES, PHYSICS, SCIENTISTS, SOCIAL SCIENCES, STUDENT TEACHER RATIO, UNITED STATES OFFICE OF EDUCATION.

ED 014 436
INGERSOLL, JONATHAN E. AND OTHERS
THE 1967 SUMMER SCIENCE PROJECT AT UNIVERSITY SCHOOL.
CLEVELAND PUBLIC SCHOOLS, OHIO
UNIVERSITY SCHOOL, SHAKER HEIGHTS, OHIO
NATURAL SCIENCE MUSEUM, CLEVELAND, OHIO
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$2.95 57P.

DESCRIPTORS—*CONSERVATION EDUCATION, *CURRICULUM DEVELOPMENT, *ECOLOGY, *FIELD EXPERIENCE PROGRAMS, *NATURAL SCIENCES, *PROGRAM DESCRIPTIONS, *SCIENCE COURSE IMPROVEMENT PROJECT, *SECONDARY SCHOOL SCIENCE, AUDIOVISUAL AIDS, BIOLOGY, CLEVELAND, COMMUNITY RESOURCES, DISADVANTAGED YOUTH, EARTH SCIENCE, FIELD INSTRUCTION, FIELD STUDIES, GEOLOGY, GRADE 7, GRADE 8, GRADE 9, INSTRUCTIONAL MATERIALS, OHIO, SUMMER INSTITUTES, THE CLEVELAND FOUNDATION.

ED 014 437
DIRECTORYANDPROCEEDINGS, ACADEMY—CONFERENCE—1966.
AMERICAN ASSN. FOR THE ADVANCEMENT OF SCIENCE
PUB DATE 66
EDRS PRICE MF-$0.75 HC-$6.70 132P.

DESCRIPTORS— *COLLEGE SCIENCE, *CONFERENCE REPORTS, *DIRECTORIES, *PROFESSIONAL ASSOCIATIONS, *SCIENTIFIC LITERACY, *SECONDARY SCHOOL SCIENCE, ACADEMY CONFERENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, CONFERENCES, JUNIOR ACADEMY OF SCIENCE.

ED 014 483
CURRICULUM GUIDE FOR THE SLOWER-LEARNER IN SECONDARY ENGLISH, SOCIAL STUDIES, AND SCIENCE.
MEXICO PUBLIC SCHOOLS, MO
PUB DATE JUN 66
EDRS PRICE MF-$0.75 HC-$8.05 159P.

DESCRIPTORS— *CURRICULUM GUIDES, *ENGLISH INSTRUCTION, *SCIENCE CURRICULUM, *SLOW LEARNERS, *SOCIAL STUDIES UNITS, INDIVIDUAL INSTRUCTION, INDIVIDUALIZED PROGRAMS, LANGUAGE ARTS, MEXICO PUBLIC SCHOOLS, MISSOURI, ORAL ENGLISH, SECONDARY EDUCATION, TEACHING GUIDES.

ED 014 737
HARMON, LINDSEY R.
PROFILES OF PH.D'S IN THE SCIENCES, SUMMARY REPORT ON FOLLOW-UP OF DOCTORATE COHORTS, 1935—1960.
NATIONAL ACADEMY OF SCIENCES—NATIONAL RES. COUNCIL.
REPORT NUMBER NAS-PUB-1293
PUB DATE 65
EDRS PRICE MF-$0.75 HC-$6.80 134P.

DESCRIPTORS— *CAREERS, *DOCTORAL DEGREES, *FEMALES, *MALES, *SCIENCES, EDUCATION, FAMILY (SOCIOLOGICAL UNIT), FINANCIAL SUPPORT, GEOGRAPHIC LOCATION, GOVERNMENT ROLE, INCOME.

ED 014 887
TELEVISION IN SCIENCE EDUCATION, NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION NEWS SUPPLEMENT NUMBER SIX.
NATIONAL CENTER FOR SCHOOL AND COLL. TELEVISION
EDRS PRICE MF-$.25 HC-$.60 10P.

DESCRIPTORS— *CONFERENCES, *ELEMENTARY SCHOOLS, *INSTRUCTIONAL TELEVISION, *SCIENCE EDUCATION, *SECONDARY SCHOOLS, TEACHER EDUCATION.

ED 014 908 56
WOODRUFF, ARNOLD BOND SHIMA-BUKURO, SHINKICHI
STUDIES ON INDIVIDUAL DIFFERENCES RELATED TO PERFORMANCE ON PROGRAMED INSTRUCTION.
NORTHERN ILLINOIS UNIV., DE KALB
REPORT NUMBER CRP-3129
REPORT NUMBER BR-5-0599
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$4.20 82P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *GENERAL SCIENCE, *GRADE 8, *INDIVIDUAL DIFFERENCES, *PROGRAMED INSTRUCTION, CREATIVITY, GRADE POINT AVERAGE, INTELLIGENCE QUOTIENT, PROMPTING, READING ABILITY, TMI—GROLIER'S COURSE IN GENERAL SCIENCE.

ED 014 999
SYSTEM PERFORMANCE SPECIFICATION FOR A NATIONAL CHEMICAL INFORMATION SYSTEM.
INFORMATION MANAGEMENT INC., BURLINGTON, MASS.
PUB DATE APR 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CHEMISTRY, *INFORMATION PROCESSING, *INFORMATION SYSTEMS, *SYSTEMS DEVELOPMENT, ADMINISTRATIVE POLICY, CRITERIA, INFORMATION CENTERS, INFORMATION NEEDS, NETWORKS, PERFORMANCE, PLANNING.

ED 015 123
TAYLOR, CALVIN W.
THE 1955 UNIVERSITY OF UTAH RESEARCH CONFERENCE ON THE IDENTIFICATION OF CREATIVE SCIENTIFIC TALENT (1ST, BRIGHTON, AUGUST 27—30, 1955.).
UTAH UNIV., SALT LAKE CITY
PUB DATE 56
EDRS PRICE MF-$1.25 HC-$13.90 276P.

DESCRIPTORS— *CONFERENCE REPORTS, *CREATIVITY, *LEARNING THEORIES, *RESEARCH REVIEWS (PUBLICATIONS), *SCIENCE EDUCATION, *SCIENTIFIC MANPOWER, ABLE STUDENTS, COLLEGES, ENGINEERING, INTELLIGENCE, MENTAL HEALTH, NATIONAL SCIENCE FOUNDATION, PERSONALITY, PROBLEM SOLVING, RESEARCHERS, STRONG VOCATIONAL INTEREST BLANK, STUDENT CHARACTERISTICS, TEACHING TECHNIQUES, UNIVERSITIES, UNIVERSITY OF UTAH.

ED 015 124
WINN, MITCHELL AND OTHERS
DRUG ABUSE—ESCAPE TO NOWHERE.
SMITH, KLINE AND FRENCH LABS., PHILADELPHIA, PA.
REPORT NUMBER 244-07816
AMERICAN ASSN. FOR HEALTH, P.E. AND RECREATION
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DRUG ADDICTION, *HEALTH EDUCATION, *NARCOTICS, ADULT EDUCATION, AMERICAN ASSOCIATION FOR HEALTH, AUDIOVISUAL AIDS, BIBLIOGRAPHIES, COLLEGE SCIENCE, ELEMENTARY SCHOOL SCIENCE, FILMS, HEALTH, INSTRUCTIONAL MATERIALS, NATIONAL EDUCATION ASSOCIATION, PHYSICAL EDUCATION AND RECREATION, PUBLIC HEALTH, REFERENCE MATERIALS, SECONDARY SCHOOL SCIENCE.

ED 015 125
YAHRAES, HERBERT AND OTHERS
NARCOTIC DRUG ADDICTION.
PUBLIC HEALTH SERVICE (DHEW), BETHESDA, MD.
REPORT NUMBER NIMH-MONOGR-2
REPORT NUMBER PHS-PUB-1021
PUB DATE 65
EDRS PRICE MF-$0.25 HC-$1.65 31P.

DESCRIPTORS— *DRUG ADDICTION, *HEALTH EDUCATION, *NARCOTICS, ADULT EDUCATION, COLLEGE SCIENCE, ELEMENTARY SCHOOL SCIENCE, HEALTH, MENTAL HEALTH, MENTAL HEALTH MONOGRAPHS, PUBLIC HEALTH , PUBLIC HEALTH SERVICE, SECONDARY SCHOOL SCIENCE, UNITED STATES DEPARTMENT OF HEALTH EDUCATION AND WELFARE.

ED 015 126
ASHBAUGH, BYRON L.
PLANNING A NATURE CENTER.
NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONSERVATION EDUCATION, *EDUCATIONAL FACILITIES, *ELEMENTARY SCHOOL SCIENCE, *NATURE CENTERS, *OUTDOOR EDUCATION, *PROGRAM PLANNING, *SECONDARY SCHOOL SCIENCE, ADULT EDUCATION, BIOLOGY, COLLEGE SCIENCE, COMMUNITY RESOURCES, EARTH SCIENCE, EDUCATIONAL OBJECTIVES, EDUCATIONAL PROGRAMS, NATIONAL AUDUBON SOCIETY, URBAN EDUCATION.

ED 015 127
REPORT OF THE CONFERENCE ON INTER-DISCIPLINARY ACTIVITIES (SEATTLE, JUNE 28—JULY 2, 1965).
COMMISSION ON UNDERGRAD. EDUC. IN BIOLOGICAL SCI.
ADVISORY COUNCIL ON COLL. CHEMISTRY
COMMISSION ON COLLEGE PHYSICS, ANN ARBOR, MICH.
PUB DATE 65
EDRS PRICE MF-$0.25 HC-$1.65 31P.

DESCRIPTORS— *COLLEGE SCIENCE, *HIGHER EDUCATION, *INSTRUCTION, *UNDERGRADUATE STUDY, AGRICULTURE, BIOLOGY, CHEMISTRY, CONFERENCE ON INTERDISCIPLINARY ACTIVITIES, CONFERENCE REPORTS, CONFERENCES, ENGINEERING, GEOGRAPHY, GEOLOGY, MATHEMATICS, PHYSICS, QUANTUM MECHANICS, RESEARCH, SEATTLE, WASHINGTON.

ED 015 128
BULKELEY, PETER Z.
AUTHENTIC INVOLVEMENT IN INTERDISCIPLINARY DESIGN, PROCEEDINGS OF CONFERENCE ON ENGINEERING DESIGN EDUCATION (3D. CARNEGIE INSTITUTE OF TECHNOLOGY, JULY 12—13, 1965).
COMMISSION ON ENGINEERING EDUC., WASHINGTON, D.C.
PUB DATE 65
EDRS PRICE MF-$.50 HC-$4.60 90P.

DESCRIPTORS— *ENGINEERING EDUCATION, *INSTRUCTION, *TECHNOLOGY, CARNEGIE INSTITUTE OF TECHNOLOGY, CONFERENCE REPORTS, NATIONAL SCIENCE FOUNDATION, WORKSHOPS.

ED 015 131
RASMUSSEN, MARGARET AND OTHERS
SCIENCE FOR THE EIGHTS-TO-TWELVES.
ASSOCIATION FOR CHILDHOOD EDUC. INTERNATIONAL
PUB DATE 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM PLANNING, *EDUCATIONAL OBJECTIVES, *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *INTERMEDIATE GRADES, *SCIENCE ACTIVITIES, *STUDENT CHARACTERISTICS, *TEACHING METHODS, AUDIOVISUAL AIDS, BIOLOGY, CONCEPT FORMATION, CONSERVATION EDUCATION, EARTH SCIENCE, GENERAL SCIENCE, INSTRUCTION, INSTRUCTIONAL MATERIALS, PHYSICAL SCIENCE, SAFETY, SCIENCE EQUIPMENT, SCIENCE MATERIALS, SCIENTIFIC ATTITUDES, SCIENTIFIC METHODOLOGY, STUDENT ATTITUDES, STUDENT INTERESTS.

ED 015 132
DUNFEE, MAXINE
ELEMENTARY SCHOOL SCIENCE—A GUIDE TO CURRENT RESEARCH.
ASSOCIATION FOR SUPERVISION AND CURRICULUM DEV.
PUB DATE 67
EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS. 87P.

DESCRIPTORS— *BIBLIOGRAPHIES, *EDUCATIONAL RESEARCH, *ELEMENTARY SCHOOL SCIENCE, *RESEARCH, *SCIENCE EDUCATION, ASSOCIATION FOR SUPERVISION AND CURRICULUM DEVELOPMENT, CONCEPT FORMATION, CURRICULUM, CURRICULUM DEVELOPMENT, DISCOVERY LEARNING, EDUCATIONAL OBJECTIVES, EDUCATIONAL TELEVISION, EVALUATION, INDIVIDUAL DIFFERENCES, INSTRUCTION, INSTRUCTIONAL MATERIALS, INTERESTS, PROGRAMED INSTRUCTION, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE EQUIPMENT, STUDENT INTERESTS, TEACHER EDUCATION, TEXTBOOKS.

ED 015 133
SULLIVAN, JOHN J. TAYLOR, CALVIN W.
LEARNING AND CREATIVITY WITH SPECIAL EMPHASIS ON SCIENCE.
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
PUB DATE 67
EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS. 53P.

DESCRIPTORS— *CREATIVITY, *LEARNING THEORIES, *SCIENCE EDUCATION, CREATIVE THINKING, EDUCATIONAL PSYCHOLOGY, INSTRUCTION, NATIONAL EDUCATION ASSOCIATION, NATIONAL SCIENCE TEACHERS ASSOCIATION, QUESTIONING TECHNIQUES, STUDENT CHARACTERISTICS, TALENT DEVELOPMENT, TALENT IDENTIFICATION, TEACHING TECHNIQUES.

ED 015 134
BRANDWEIN, PAUL F.
BUILDING CURRICULAR STRUCTURES FOR SCIENCE WITH SPECIAL REFERENCE TO THE JUNIOR HIGH SCHOOL.
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
PUB DATE 67
EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS. 26P.

DESCRIPTORS— *CURRICULUM, *JUNIOR HIGH SCHOOLS, *SECONDARY SCHOOL SCIENCE, CURRICULUM DEVELOPMENT, CURRICULUM PLANNING, NATIONAL EDUCATION ASSOCIATION, NATIONAL SCIENCE TEACHERS ASSOCIATION.

ED 015 135
TURNER, C.E.
PLANNING FOR HEALTH EDUCATION IN SCHOOLS.
UNITED NATIONS EDUCATIONAL SCIENTIFIC AND CULT. ORG.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM GUIDES, *CURRICULUM PLANNING, *EDUCATIONAL OBJECTIVES, *ELEMENTARY SCHOOL SCIENCE, *HEALTH EDUCATION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, COMMUNITY HEALTH SERVICES, EDUCATIONAL NEEDS, EDUCATIONAL PROGRAMS, HEALTH, INSTRUCTION, PUBLIC HEALTH, RURAL EDUCATION, SCIENCE ACTIVITIES, TEACHING METHODS, UNESCO, UNITED NATIONS, URBAN EDUCATION, WORLD HEALTH ORGANIZATION.

ED 015 136
COOMBS, PHILIP H. AND OTHERS
EDUCATIONAL PLANNING—AN INVENTORY OF MAJOR RESEARCH NEEDS.
INTERNATIONAL INST. FOR EDUCATIONAL PLANNING
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS

DESCRIPTORS— *CONFERENCE REPORTS, *EDUCATIONAL PLANNING, CONFERENCES, EDUCATIONAL FINANCE, EDUCATIONAL NEEDS, EDUCATIONAL RESEARCH, INTERNATIONAL INSTITUTE FOR EDUCATIONAL PLANNING, MANPOWER DEVELOPMENT, PARIS, RESEARCH, SOCIAL SCIENCES, SYSTEMS ANALYSIS, TEACHER SUPPLY AND DEMAND, WOMEN TEACHERS.

ED 015 137
KNOCK, H. E. AND OTHERS
TEACHING SCIENCE AT THE SECONDARY STAGE, A HANDBOOK ON THE TEACHING OF SCIENCE TO THE AVERAGE PUPIL.
ASSOCIATION FOR SCIENCE EDUC., CAMBRIDGE (ENGLAND)
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *CHEMISTRY, *EDUCATIONAL OBJECTIVES, *EVALUATION, *GENERAL EDUCATION, *INSTRUCTION, *PHYSICS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, *TEACHING METHODS, ASSOCIATION FOR SCIENCE EDUCATION, CURRICULUM PLANNING, ELEMENTARY SCHOOL SCIENCE, ENGLAND, METHODS COURSES, PROGRAMED INSTRUCTION, REFERENCE MATERIALS, SCIENCE EDUCATION, TEXTBOOKS.

ED 015 138
LEE, ADDISON E.
THE DEVELOPMENT OF NEW SUPPLEMENTARY TEACHING MATERIALS AND AN ANALYSIS OF THEIR POTENTIAL USE IN THE HIGH SCHOOL BIOLOGY CURRICULUM. FINAL REPORT.
TEXAS UNIV., AUSTIN
REPORT NUMBER CRP-S-451
REPORT NUMBER BR-5-8449
PUB DATE AUG 66
CONTRACT OEC-6-10-171
EDRS PRICE MF-$0.25 HC-$0.50 8P.

DESCRIPTORS— *BIOLOGY, *INSTRUCTION, *INSTRUCTIONAL MATERIALS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, AUDIOVISUAL AIDS, BIOLOGICAL SCIENCES CURRICULUM STUDY, BIOLOGICAL SCIENCES CURRICULUM STUDY COMPREHENSIVE FINAL EXAM, DIFFERENTIAL APTITUDE TESTS, HOUSTON, INQUIRY TRAINING, PROCESSES OF SCIENCE TEST, SCIENCE MATERIALS, TEACHING GUIDES, TEACHING TECHNIQUES, TEXAS, UNITED STATES DEPARTMENT OF HEALTH EDUCATION AND WELFARE.

ED 015 139
PORTER, LAWRENCE C.
DIMENSIONS OF CHANGE IN HIGHER EDUCATION, CONFERENCE ON INNOVATION (3D, BARD COLLEGE, ANNANDALE-ON-HUDSON, NEW YORK, JANUARY 25—28, 1967). CONFERENCE SUMMARY.
UNION FOR RES. AND EXPERIMENTATION IN HIGHER EDUC.
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$2.25 43P.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM, *GENERAL EDUCATION, *INSTRUCTION, *SCIENCE EDUCATION, *TEACHING METHODS, BIOLOGY, CHEMISTRY, CONFERENCE REPORTS, CONSERVATION EDUCATION, ECOLOGY, EDUCATIONAL INNOVATION, EDUCATIONAL OBJECTIVES, EDUCATIONAL PROBLEMS, EVAL-

UATION, HIGHER EDUCATION, INDEPENDENT STUDY, PHYSICS, SCIENTIFIC ENTERPRISE, STUDENT OPINION, TALENT IDENTIFICATION, WHITE MEMORIAL FOUNDATION.

ED 015 142
DAVIS, E. E.
ATTITUDE CHANGE, A REVIEW AND BIBLIOGRAPHY OF SELECTED RESEARCH.
UNITED NATIONS EDUCATIONAL SCIENTIFIC AND CULT. ORG.
REPORT NUMBER SS-CH-19
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ATTITUDES, *BIBLIOGRAPHIES, *RESEARCH, COMMUNICATIONS, COMMUNITY ATTITUDES, CULTURAL FACTORS, CULTURE, GROUP DYNAMICS, INTERGROUP RELATIONS, PERSONALITY, RESEARCH METHODOLOGY, SOCIAL ATTITUDES, SOCIOECONOMIC INFLUENCES.

ED 015 156
ANDERSON, GARY J. WALBERG, HERBERT J.
CLASSROOM CLIMATE AND GROUP LEARNING.
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$0.80 14P.

DESCRIPTORS— *ATTITUDES, *LEARNING, *PHYSICS TEACHERS, *STUDENT TEACHER RELATIONSHIP, ACHIEVEMENT, ACHIEVEMENT TESTS, BIBLIOGRAPHIES, CLASSROOM CLIMATE QUESTIONNAIRE, CLASSROOM ENVIRONMENT, INTELLIGENCE, PERMISSIVE ENVIRONMENT, PHYSICS, PHYSICS ACHIEVEMENT TEST, SECONDARY EDUCATION SOCIAL CLASS, SEMANTIC DIFFERENTIAL FOR SCIENCE STUDENTS, STUDENT ATTITUDES, TEACHER ATTITUDES, TEST ON UNDERSTANDING SCIENCE.

ED 015 294
AUSMUS, NORMA F. AND OTHERS
THE CURRENT EMPLOYMENT MARKET FOR ENGINEERS, SCIENTISTS, AND TECHNICIANS, DECEMBER 1966.
BUREAU OF EMPLOYMENT SECURITY (DEPT. OF LABOR)
PUB DATE DEC 66
EDRS PRICE MF-$0.25 HC-$2.40 46P.

DESCRIPTORS— *DRAFTSMEN, *ENGINEERS, *LABOR MARKET, *SCIENTISTS, *SUBPROFESSIONALS, EMPLOYMENT OPPORTUNITIES, EMPLOYMENT SERVICES, EMPLOYMENT TRENDS, GEOGRAPHIC DISTRIBUTION, JOB SEEKERS, OCCUPATIONAL SURVEYS.

ED 015 295
AUSMUS, NORMA F. SAILE, ALVIN W.
THE CURRENT EMPLOYMENT MARKET FOR ENGNEERS, SCIENTISTS, AND TECHNICIANS, OCTOBER 1965.
BUREAU OF EMPLOYMENT SECURITY (DEPT. OF LABOR).
PUB DATE OCT 65
EDRS PRICE MF-$0.25 HC-$1.70 32P.

DESCRIPTORS— *DRAFTSMEN, *ENGINEERS, *LABOR MARKET, *SCIENTISTS, *SUBPROFESSIONALS, BUREAU OF EMPLOYMENT SECURITY, EMPLOYMENT OPPORTUNITIES, EMPLOYMENT SERVICES, EMPLOYMENT TRENDS, GEOGRAPHIC DISTRIBUTION, JOB SEEKERS, OCCUPATIONAL SURVEYS.

ED 015 324
NORGREN, PAUL H. WARNER, AARON W.
OBSOLESCENCE AND UPDATING OF ENGINEERS' AND SCIENTISTS' SKILLS. FINAL REVISED REPORT.
PUB DATE NOV 66
EDRS PRICE MF-$0.75 HC-$8.30 164P.

DESCRIPTORS— *ENGINEERS, *IMPROVEMENT, *JOB SKILLS, *SCIENTISTS, *TECHNOLOGICAL ADVANCEMENT, PROFESSIONAL TRAINING, RESEARCH NEEDS, RETRAINING, VOCATIONAL ADJUSTMENT.

ED 015 719
KALLAN, LEO E. MOONEY, WILLIAM T., JR.
A PROJECT TO IMPROVE LEARNING IN CHEMISTRY AT EL CAMINO COLLEGE BY INTRODUCING CHEM. STUDY FILMS IN THE EIGHT MILLIMETER CARTRIDGE FORM FOR OUT-OF-CLASS USE BY STUDENTS.
EL CAMINO COLL., EL CAMINO COLLEGE, CALIF.
PUB DATE 1 SEP 65
EDRS PRICE MF-$0.25 HC-$1.50 28P.

DESCRIPTORS— *CHEMISTRY INSTRUCTION, *JUNIOR COLLEGES, *SINGLE CONCEPT FILMS, *STUDY GUIDES, AUTOINSTRUCTIONAL PROGRAMS, CALIFORNIA, EL CAMINO COLLEGE, INDEPENDENT STUDY, INSTRUCTIONAL FILMS, SCIENCE TESTS, SOUND FILMS.

ED 015 733
HAWORTH, LELAND J.
THE JUNIOR COLLEGE AND EDUCATION IN THE SCIENCES, THIRD REPORT IN A SERIES PREPARED FOR THE SUBCOMMITTEE ON SCIENCE, RESEARCH, AND DEVELOPMENT OF THE COMMITTEE ON SCIENCE AND ASTRONAUTICS OF THE U.S. HOUSE OF REPRESENTATIVES (TITLE SUPPLIED).
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$5.65 111P.

DESCRIPTORS— *HIGHER EDUCATION, *JUNIOR COLLEGES, *SCIENCE EDUCATION, *SCIENTISTS, *TEACHER QUALIFICATIONS, COLLEGE SCIENCE, INSTRUCTIONAL STAFF, SCIENCE TEACHERS, TEACHER RECRUITMENT.

ED 015 741
RICARD, JACK
A TOOL FOR INDEPENDENT STUDY IN BIOLOGY.
OREGON STATE UNIV., CORVALLIS
PUB DATE 65
EDRS PRICE MF-$0.25 HC-$0.25 3P.

DESCRIPTORS— *BIOLOGICAL SCIENCES, *INDEPENDENT STUDY, *JUNIOR COLLEGES, *RECORDS (FORMS), *SCIENCE PROJECTS, CALIFORNIA, COLLEGE SCIENCE, PLANNING, SACRAMENTO, SCIENCE EXPERIMENTS, SCIENCE INSTRUCTION.

ED 015 866
JAMES, MELBA AND OTHERS
BIOLOGY, A GUIDE FOR TEACHERS.
MISSOURI STATE DEPT. OF EDUCATION, JEFFERSON CITY
REPORT NUMBER PUB-131G
PUB DATE 66
EDRS PRICE MF-$0.50 HC-$6.45 127P.

DESCRIPTORS— *BIOLOGICAL SCIENCES, *BIOLOGY, *SECONDARY SCHOOL SCIENCE, BIBLIOGRAPHIES, GRADE 10, GRADE 12, GRADE 7, TEACHING GUIDES.

ED 015 867
TWEETEN, PAUL W.
PHYSICS FOR IOWA SCHOOLS.
IOWA STATE DEPT. OF PUBLIC INSTR., DES MOINES
PUB DATE 66
EDRS PRICE MF-$0.50 HC-$5.90 116P.

DESCRIPTORS— *COURSE CONTENT, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, AUDIOVISUAL AIDS, MATHEMATICS, PROBLEM SOLVING, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE EQUIPMENT.

ED 015 868
HOLMAN, JAN L.
GUIDELINES FOR THE DEVELOPMENT OF ELEMENTARY SCIENCE CURRICULUM K-6.
KANSAS STATE DEPT. OF PUBLIC INSTR., TOPEKA.
PUB DATE 66
EDRS PRICE MF-$0.25 HC-$1.55 29P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *TEACHING GUIDES, AUDIOVISUAL AIDS, CORE CURRICULUM, EDUCATIONAL OBJECTIVES, , KANSAS, LABORATORY SAFETY, SCIENCE EQUIPMENT, SCIENCE FACILITIES.

ED 015 869
BROWN, ROBERT E. MOUSER, G. W.
TECHNIQUES FOR TEACHING CONSERVATION EDUCATION.
MICHIGAN ST. UNIV., EAST LANSING
PUB DATE 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONSERVATION EDUCATION, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, BIBLIOGRAPHIES, ELEMENTARY SCHOOL SCIENCE, FIELD TRIPS, OUTDOOR EDUCATION, TEACHING METHODS.

ED 015 870
TIMMONS, KAREN S.
TEACHERS' GUIDES, AEROSPACE SCIENCE, GRADES K-6.
LINCOLN PUBLIC SCHOOLS, NEBR.
PUB DATE 66
EDRS PRICE MF-$0.50 HC-$4.70 92P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, *TEACHING GUIDES, BIBLIOGRAPHIES, CONCEPT FORMATION, EARTH SCIENCE, PHYSICAL SCIENCES.

ED 015 871
GUIDELINES TO CONSERVATION EDUCATION ACTION.
NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONSERVATION EDUCATION, *HUMAN RESOURCES, *NATURAL RESOURCES, *TEACHER EDUCATION, ADULT EDUCATION, ATTITUDES, BIBLIOGRAPHIES, BIOLOGY, CONSERVATION EDUCATION ASSOCIATION, EARTH SCIENCE, ELEMENTARY SCHOOL SCIENCE, NATIONAL AUDUBON SOCIETY, SECONDARY SCHOOL SCIENCE, THE IZAAK WALTON LEAGUE OF AMERICA.

ED 015 875
MATTFELD, JACQUELYN A.   VAN AKEN, CAROL G.
WOMEN AND THE SCIENTIFIC PROFESSIONS, THE M.I.T. SYMPOSIUM ON AMERICAN WOMEN IN SCIENCE AND ENGINEERING.
PUB DATE   65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ENGINEERING, *FEMALES, *PROFESSIONAL OCCUPATIONS, *SCIENCE CAREERS, *SCIENCES, *SCIENTIFIC MANPOWER, CAREER OPPORTUNITIES, CONFERENCE REPORTS, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, SOCIAL SCIENCES.

ED 015 876
NELSON, CLARENCE H.
TESTING AND EVALUATION IN THE BIOLOGICAL SCIENCES.
COMMISSION ON UNDERGRAD. EDUC. IN BIOLOGICAL SCI.
PUB DATE   NOV 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACHIEVEMENT TESTS, *BIOLOGY, *COLLEGE SCIENCE, *EVALUATION, *OBJECTIVE TESTS, *TESTING, BLOOM'S TAXONOMY OF EDUCATIONAL OBJECTIVES, COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES (CUEBS), ECOLOGY, ESSAY TESTS, INSTRUCTION, SECONDARY SCHOOL SCIENCE, TEST CONSTRUCTION.

ED 016 482
MAFFETT, JAMES E.
INSTRUCTIONAL PERFORMANCE OBJECTIVES FOR A COURSE IN GENERAL BIOLOGY.
MANATEE JUNIOR COLL., BRADENTON, FLA.
EDRS   PRICE   MF-$0.25   HC-$1.90   36P.

DESCRIPTORS— *BEHAVIORAL OBJECTIVES, *BIOLOGICAL SCIENCES, *BIOLOGY INSTRUCTION, *COURSE OBJECTIVES, *EDUCATIONAL OBJECTIVES, *JUNIOR COLLEGES, BIOLOGY, BRADENTON, COURSE CONTENT, FLORIDA.

ED 016 604
WHEELER, HUBERT
EARTH SCIENCE, A GUIDE FOR TEACHERS.
MISSOURI STATE DEPT OF EDUCATION, JEFFERSON CITY.
REPORT NUMBER   PUB-130G.
PUB DATE   66
EDRS   PRICE   MF-$0.50   HC-$3.85   75P.

DESCRIPTORS— *COURSE CONTENT, *EARTH SCIENCE, BIOLOGICAL SCIENCES CURRICULUM STUDY, CHEMICAL BOND APPROACH, CHEMICAL EDUCATION MATERIALS STUDY, CURRICULUM DEVELOPMENT, CURRICULUM GUIDES, EARTH SCIENCE CURRICULUM PROJECT, GRADE 8, JEFFERSON CITY, MISSOURI, SECONDARY SCHOOL SCIENCE, TEACHING METHODS, TEACHING TECHNIQUES.

ED 016 606
SHOMON, JOSEPH J.
MANUAL OF OUTDOOR CONSERVATION EDUCATION.
NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.
PUB DATE   64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONSERVATION EDUCATION, *EDUCATIONAL FACILITIES, *EDUCATIONAL OBJECTIVES, *OUTDOOR EDUCATION, *SCIENCE FACILITIES, *TEACHING PROCEDURES, ADULT EDUCATION, BIOLOGY, COLLEGE SCIENCE, CURRICULUM PLANNING, EARTH SCIENCE, ECOLOGY, EDUCATIONAL PROGRAMS, ELEMENTARY SCHOOL SCIENCE, INSTRUCTION, NATURE CENTERS, SECONDARY SCHOOL SCIENCE.

ED 016 607
ASHBAUGH, BYRON L.
TRAIL PLANNING AND LAYOUT.
NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.
PUB DATE   65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *EDUCATIONAL FACILITIES, *OUTDOOR EDUCATION, *SCIENCE FACILITIES, ADULT EDUCATION, COLLEGE SCIENCE, CONSERVATION EDUCATION, INSTRUCTION, NATURE CENTERS, SECONDARY SCHOOL SCIENCE.

ED 016 608 56
GORDON, JOHN M.
THE EFFECTIVENESS OF FOUR VARIATIONS OF PROGRAMED SCIENCE MATERIALS.
MICHIGAN ST. UNIV., EAST LANSING.
REPORT NUMBER BR-5-0747
PUB DATE 67
GRANT OEG-7-32-0410-256
EDRS PRICE MF-$0.25 HC-$2.10 40P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *AUDIOVISUAL AIDS, *GRADE 7, *INSTRUCTION, *PROGRAMED INSTRUCTION, *SECONDARY SCHOOL SCIENCE, COGNITIVE DEVELOPMENT, ELECTRICITY, LANSING, MICHIGAN, NATIONAL DEFENSE EDUCATION ACT, PHYSICAL SCIENCES, TITLE 7, (NDEA), UNITED STATES OFFICE OF EDUCATION, WEST JUNIOR HIGH SCHOOL.

ED 016 619
LAMIE, RICHARD G.
A FORMAL COURSE IN OCEANOGRAPHY AT THE SECONDARY SCHOOL LEVEL THROUGH INDEPENDENT STUDY, SUMMARY REPORT AND FINAL REPORT.
VALHALLA UNION FREE SCHOOL DISTRICT NO. 5, N.Y.
REPORT NUMBER BR6-8297
PUB DATE 67
CONTRACT OEC-1-6-068297-1734
EDRS PRICE MF-$0.25 HC-$1.90 36P.

DESCRIPTORS— *COURSE CONTENT, *COURSE DESCRIPTIONS, *CURRICULUM DEVELOPMENT, *INDEPENDENT STUDY, *OCEANOLOGY, *REFERENCE MATERIALS, *SECONDARY SCHOOL SCIENCE, BIBLIOGRAPHIES, BIOLOGY, COURSE ORGANIZATION, CURRICULUM DEVELOPMENT, INSTRUCTION, INSTRUCTIONAL MATERIALS, TEACHING METHODS, TEACHING PROCEDURES.

ED 016 620 24
MARKS, RONALD L.
DIFFERENCES IN LEARNING OUTCOMES BETWEEN A NEW AND A TRADITIONAL CHEMISTRY COURSE.
INDIANA STATE COLL., PA.
REPORT NUMBER BR-5-8026
REPORT NUMBER CRP-S-317
PUB DATE OCT 66
EDRS PRICE MF-$0.25 HC-$1.15 21P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *CHEMISTRY, *COGNITIVE PROCESSES, *CRITICAL THINKING, *SECONDARY SCHOOL SCIENCE, *TEST CONSTRUCTION, ACHIEVEMENT TESTS, CHEMICAL BOND APPROACH, COGNITIVE ABILITY, EVALUATION, INDIANA STATE COLLEGE, LEARNING, PENNSYLVANIA, STUDENT CHARACTERISTICS, TESTS.

ED 016 621
CARTTER, ALLAN M.
AN ASSESSMENT OF QUALITY IN GRADUATE EDUCATION.
AMERICAN COUNCIL ON EDUCATION, WASHINGTON, D. C.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGICAL SCIENCES, *EDUCATIONAL PROGRAMS, *ENGINEERING, *EVALUATION, *GRADUATE STUDY, *HIGHER EDUCATION, *HUMANITIES, *PHYSICAL SCIENCES, *SOCIAL SCIENCES, AMERICAN COUNCIL ON EDUCATION, COLLEGE TEACHERS, COMMISSION ON PLANS FOR HIGHER EDUCATION.

ED 016 627
FROSCH, ROBERT A.
UNIVERSITY CURRICULA IN THE MARINE SCIENCES.
INTERAGENCY COMMITTEE ON OCEANOGRAPHY, WASHINGTON, D.C.
REPORT NUMBER ICO-PAM-30
PUB DATE AUG 67
EDRS PRICE MF-$0.75 HC-$8.40 166P.

DESCRIPTORS— *CAREER PLANNING, *CURRICULUM, *EDUCATIONAL PROGRAMS, *OCEANOLOGY, CAREERS, COLLEGE SCIENCE, NATIONAL COUNCIL OF MARINE RESOURCES AND ENGINEERING DEVELOPMENT.

ED 016 629
CHRISTIAN, FLOYD T.
ALCOHOL... NARCOTICS EDUCATION, A HANDBOOK FOR TEACHERS.
FLORIDA ST. DEPT. OF EDUCATION, TALLAHASSEE
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ALCOHOLISM, *CURRICULUM, *DRUG ADDICTION, *EDUCATIONAL OBJECTIVES, *HEALTH EDUCATION, *SECONDARY SCHOOL SCIENCE, *TEACHER GUIDES, ELEMENTARY SCHOOL SCIENCE, FLORIDA, INSERVICE EDUCATION, STATE DEPARTMENT OF EDUCATION, STUDENT ACTIVITIES.

ED 016 630
KITZINGER, ANGELA HILL, PATRICIA J.
DRUG ABUSE, A SOURCE BOOK AND GUIDE FOR TEACHERS.
CALIFORNIA STATE DEPT. OF EDUCATION, SACRAMENTO
PUB DATE 67
EDRS PRICE MF-$0.75 HC-$6.95 137P.

DESCRIPTORS— *CURRICULUM,*DRUG ADDICTION, *DRUG LEGISLATION, *HEALTH EDUCATION, *INSTRUCTION, *TEACHING GUIDES, CALIFORNIA, CURRICULUM PLANNING, ELEMENTARY SCHOOL SCIENCE, SECONDARY SCHOOL SCIENCE.

ED 016 631
CASSEL, RICHARD
BASIC ELECTRICITY. SCIENCE IN ACTION SERIES, NUMBER 14.
PENNSYLVANIA STATE DEPT. OF PUBLIC INSTRUCTION
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$1.30 24P.

DESCRIPTORS— *ELECTRICITY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, INVESTIGATIONS.

ED 016 636
O'CONNOR, ROD SLABAUGH, WENDELL
TEACHER-PRODUCED INSTRUCTIONAL FILMS IN CHEMISTRY, 8MM AND SUPER 8.
ADVISORY COUNCIL ON COLL. CHEMISTRY.
PUB DATE DEC 67
EDRS PRICE MF-$0.25 HC-$2.00 38P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *CHEMISTRY, *COLLEGE SCIENCE, *FILM PRODUCTION, *FILMS, INSTRUCTIONAL FILMS, *SCIENCE MATERIALS.

ED 016 813
BARLOW, MELVIN L. SCHILL, WILLIAM J.
THE ROLE OF THE PHYSICAL SCIENCES IN ELECTRICAL-ELECTRONIC TECHNOLOGY. PROGRESS REPORT.
CALIFORNIA UNIV., LOS ANGELES.
CALIFORNIA STATE DEPT. OF EDUCATION, SACRAMENTO.
PUB DATE 65
EDRS PRICE MF-$0.50 HC-$3.65 71P.

DESCRIPTORS— *CURRICULUM PLANNING, *EDUCATIONAL NEEDS, *ELECTRONIC TECHNICIANS, *PHYSICAL SCIENCES, *SCIENTIFIC PRINCIPLES, CHEMISTRY, ELECTRICITY, ELECTRONICS, JOB SKILLS, PHYSICS, TECHNICAL EDUCATION.

ED 017 004 24
FOREHAND, GARLIE A.
INDIVIDUAL DIFFERENCES IN PROBLEM SOLVING PROCESSES OF COLLEGE STUDENTS.
CARNEGIE-MELLON UNIV., PITTSBURGH, PA.
REPORT NUMBER BR-5-0908
REPORT NUMBER CRP-3151
PUB DATE 67
CONTRACT OEC-6-10-162
EDRS PRICE MF-$0.50 HC-$4.70 92P.

DESCRIPTORS— *ABILITY IDENTIFICATION, *MEASUREMENT TECHNIQUES, *PROBLEM SOLVING, *SCIENTIFIC METHODOLOGY, *THOUGHT PROCESSES, COLLEGE STUDENTS, DECISION MAKING, PROBLEM SETS, RESEARCH PROJECTS.

ED 017 144
SHAW, ARCHIBALD
THE COLLEGE AND UNIVERSITY SCIENCE CENTER. REPORT FROM A WORKSHOP SPONSORED BY EDUCATIONAL EXECUTIVE'S OVERVIEW MAGAZINE AND PERKINS AND WILL, ARCHITECTS, NEW YORK CITY, OCTOBER 26, 1961.
PERKINS AND WILL, ARCHITECTS, CHICAGO, ILL.
PUB DATE OCT 61
EDRS PRICE MF-$0.25 HC-$2.50 48P.

DESCRIPTORS— *COLLEGE BUILDINGS, *DESIGN NEEDS, *FLEXIBLE FACILITIES, *SCIENCE FACILITIES, *SPATIAL RELATIONSHIP, BIOLOGY, CHEMISTRY, MATHEMATICS, PHYSICS, SCIENCE EDUCATION,SCIENCE LABORATORIES, SCIENTIFIC RESEARCH, WORKSHOPS.

ED 017 314
CREAGER, WILLIAM A. SPARKS, DAVID E.
A SERIALS DATA PROGRAM FOR SCIENCE AND TECHNOLOGY, RESULTS OF A FEASIBILITY STUDY. FINAL REPORT.
INFORMATION DYNAMICS CORP., READING, MASS.
REPORT NUMBER IDC-8521
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INFORMATION PROCESSING, *SCIENCES, *SERIALS, *TECHNOLOGY, AUTOMATION, BIBLIOGRAPHIES, CATALOGING, COSTS, DOCUMENTATION, FEASIBILITY STUDIES, INFORMATION RETRIEVAL, INFORMATION SYSTEMS, INTERAGENCY COOPERATION, LIBRARIES, PLANNING, SYSTEMS ANALYSIS.

ED 017 440
WHEELER, HUBERT
CHEMISTRY, A GUIDE FOR TEACHERS.
MISSOURI STATE DEPT. OF EDUCATION, JEFFERSON CITY.
REPORT NUMBER 129G
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CHEMISTRY, *COURSE CONTENT, CHEMICAL BOND APPROACH, CHEMICAL EDUCATION MATERIALS STUDY, CURRICULUM DEVELOPMENT, CURRICULUM GUIDES, NATIONAL DEFENSE EDUCATION ACT, SECONDARY SCHOOL SCIENCE, TEACHING GUIDES, TEACHING METHODS, TEACHING TECHNIQUES.

ED 017 441
TAYLOR, MRS. JAMES L.
SCIENCE IN THE ELEMENTARY SCHOOL, GRADE 3, A GUIDE FOR TEACHERS.
TUPELO PUBLIC SCHOOLS, MISS.
PUB DATE 65
EDRS PRICE MF-$0.50 HC-$5.85 115P.

DESCRIPTORS— *BIOLOGY, *COURSE OBJECTIVES, *CURRICULUM DEVELOPMENT, *EDUCATIONAL TELEVISION, *ELEMENTARY SCHOOL SCIENCE, *GRADE 3, *INSTRUCTIONAL MATERIALS, *PHYSICAL SCIENCES, *TEACHING GUIDES, AUDIOVISUAL AIDS, EARTH SCIENCE, ECOLOGY, EDUCATIONAL PROGRAMS, FILMS, FILMSTRIPS, MISSISSIPPI, ZOOLOGY.

ED 017 442
TAYLOR, MRS. JAMES L.
SCIENCE IN THE ELEMENTARY SCHOOL, GRADE 4, A GUIDE FOR TEACHERS.
TUPELO PUBLIC SCHOOLS, MISS.
PUB DATE 65
EDRS PRICE MF-$0.50 HC-$5.30 104P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *COURSE OBJECTIVES, *CURRICULUM DEVELOPMENT,*EARTH SCIENCE,*EDUCATIONAL TELEVISION, *ELEMENTARY SCHOOL SCIENCE, *GRADE 4, *INSTRUCTIONAL MATERIALS, *PHYSICAL SCIENCES, *TEACHING GUIDES, ECOLOGY, EDUCATIONAL PROGRAMS, FILMS, FILMSTRIPS, MISSISSIPPI, ZOOLOGY.

ED 017 443
TAYLOR, MRS. JAMES L.
SCIENCE IN THE ELEMENTARY SCHOOL, GRADE 5, A GUIDE FOR TEACHERS.
TUPELO PUBLIC SCHOOLS, MISS.
PUB DATE 65
EDRS PRICE MF-$0.50 HC-$5.90 116P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *COURSE OBJECTIVES, *CURRICULUM DEVELOPMENT,*EARTH SCIENCE,*EDUCATIONAL TELEVISION, *ELEMENTARY SCHOOL SCIENCE, *GRADE 5, *INSTRUCTIONAL MATERIALS, *PHYSICAL SCIENCES, *TEACHING GUIDES, ECOLOGY, EDUCATIONAL PROGRAMS, FILMS, FILMSTRIPS, MISSISSIPPI, ZOOLOGY.

ED 017 444
TAYLOR, MRS. JAMES L.
SCIENCE IN THE ELEMENTARY SCHOOLS, GRADE 6, A GUIDE FOR TEACHERS.
TUPELO PUBLIC SCHOOLS, MISS.
PUB DATE 65
EDRS PRICE MF-$0.75 HC-$6.70 132P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *COURSE OBJECTIVES, *CURRICULUM DEVELOPMENT,*EARTH SCIENCE,*EDUCATIONAL TELEVISION, *ELEMENTARY SCHOOL SCIENCE, *GRADE 6, *INSTRUCTIONAL MATERIALS, *PHYSICAL SCIENCES, *TEACHING GUIDES, ECOLOGY, EDUCATIONAL PROGRAMS, FILMS, FILMSTRIPS, MISSISSIPPI, ZOOLOGY.

ED 017 445
COCKRELL, LLOYD
OUTDOOR EDUCATION CENTER, PLANNING PROJECT REPORT.
ALBUQUERQUE PUBLIC SCHOOLS, NEW MEXICO
PUB DATE 66
GRANT OEG-4-6-000884-07878
EDRS PRICE MF-$0.50 HC-$3.40 66P.

ESCRIPTORS— *CONSERVATION EDUCATION,
URRICULUM DEVELOPMENT, *EDUCATIONAL
LANNING, *OUTDOOR EDUCATION, *PROGRAM
ESCRIPTIONS, *PROGRAM PLANNING, ART,
IOLOGY, EARTH SCIENCE, EDUCATIONAL
ACILITIES, ELEMENTARY SCHOOL SCIENCE,
STRUCTIONAL MATERIALS, LANGUAGE ARTS,
ATHEMATICS, MUSIC, PHYSICAL EDUCATION,
IENCE EDUCATION, SCIENCE EQUIPMENT,
ECONDARY SCHOOL SCIENCE, SOCIAL SCIENCES.

D 017 446
EST BOOKLET FOR HIGH SCHOOL BIOLOGY,
XPERIMENTAL MATERIALS FOR USE 1966—1968.
OLOGICAL SCIENCES CURRICULUM STUDY, BOUL-
ER, COLO.
UB DATE 66
OCUMENT NOT AVAILABLE FROM EDRS.

ESCRIPTORS— *BIOLOGY, *EVALUATION,
ECONDARY SCHOOL SCIENCE, *TEST
ONSTRUCTION, BIOLOGICAL SCIENCES
URRICULUM STUDY, GREEN VERSION, MULTIPLE
HOICE TESTS, SCIENCE COURSE IMPROVEMENT
ROJECT, TESTS.

D 017 447
ARPLUS, ROBERT THIER, HERBERT D.
NEW LOOK AT ELEMENTARY SCHOOL SCIENCE,
EW TRENDS IN CURRICULUM AND INSTRUCTION
RIES.
ALIFORNIA UNIV., BERKELEY, SCI. CURRIC. IMPR.
UDY.
UB DATE JAN 67
OCUMENT NOT AVAILABLE FROM EDRS.

ESCRIPTORS— *CURRICULUM, *EDUCATIONAL
OGRAMS,*ELEMENTARY SCHOOL SCIENCE,
ROGRAM DESCRIPTIONS, *SCIENCE COURSE
PROVEMENT PROJECT, *SCIENCE EDUCATION,
BLIOGRAPHIES, CALIFORNIA, COGNITIVE
EVELOPMENT, EDUCATIONAL OBJECTIVES,
STRUCTIONAL MATERIALS, LEARNING, SCIENCE
URRICULUM IMPROVEMENT STUDY, TEACHER
OLE, TEACHING METHODS, UNIVERSITY OF
ALIFORNIA.

D 017 448
OLDSMITH, J. LYMAN
STRUCTIONAL GUIDE FOR ELECTRICITY, JUNIOR
GH SCHOOL INDUSTRIAL ARTS.
S ANGELES CITY SCHOOLS, CALIF.
EPORT NUMBER SC-627
UB DATE 67
ORS PRICE MF-$0.50 HC-$4.35 85P.

DESCRIPTORS— *ELECTRICITY,*INDUSTRIAL ARTS, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, CALIFORNIA, LOS ANGELES CITY SCHOOLS, SAFETY, TEACHING TECHNIQUES.

ED 017 449
WARREN, J. W.
THE TEACHING OF PHYSICS.
BRUNEL COLL., LONDON (ENGLAND)
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INSTRUCTION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, ENGLAND, GENERAL CERTIFICATE OF EDUCATION (G.C.E.), SCIENTIFIC CONCEPTS, TEXTBOOKS.

ED 017 450
HARBECK, MARY BLATT
A SOURCEBOOK FOR SCIENCE SUPERVISORS.
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
PUB DATE 67
EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS 144P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *SECONDARY SCHOOL SCIENCE, *SUPERVISION, *SUPERVISOR QUALIFICATIONS, *SUPERVISORY METHODS, COMMUNITY RESOURCES, CURRICULUM DEVELOPMENT, CURRICULUM PLANNING, FEDERAL PROGRAMS, NATIONAL EDUCATION ASSOCIATION, NATIONAL SCIENCE SUPERVISORS ASSOCIATION, NATIONAL SCIENCE TEACHERS ASSOCIATION, PROFESSIONAL ASSOCIATIONS, SCIENCE SUPERVISION, UNITED STATES OFFICE OF EDUCATION.

ED 017 455
HAYDEN, JESS AND OTHERS
ANIMATED SERIAL SECTIONS, A TEACHING AID FOR ORAL HISTOLOGY AND EMBRYOLOGY.
LOMA LINDA UNIV., CALIF.
REPORT NUMBER BR-5-0898
PUB DATE 66
GRANT OEG-7-14-0340-275
EDRS PRICE MF-$0.25 HC-$1.05 19P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *COLLEGE SCIENCE, *FILMS, ANATOMY, HEALTH OCCUPATIONS, HIGHER EDUCATION, INSTRUCTIONAL AIDS, LOMA LINDA UNIVERSITY, PROFESSIONAL EDUCATION, TEACHING TECHNIQUES.

ED 017 456
MARSHALL, J. STANLEY BURKMAN, ERNEST
CURRENT TRENDS IN SCIENCE EDUCATION.
CENTER FOR APPLIED RESEARCH IN EDUC., INC.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *CHEMISTRY, *CURRICULUM DEVELOPMENT, *EARTH SCIENCE, *INSTRUCTION, *PHYSICS, *SCIENCE EDUCATION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, BIOLOGICAL SCIENCES CURRICULUM STUDY, CHEMICAL BOND APPROACH, COMPUTER ASSISTED INSTRUCTION, CONVENTIONAL INSTRUCTION, EDUCATIONAL OBJECTIVES, EDUCATIONAL PROBLEMS, INSERVICE EDUCATION, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCE STUDY COMMITTEE, UNDERGRADUATE STUDY.

ED 017 466
VAN COTT, HAROLD P. KINKADE, ROBERT G.
A FEASIBILITY STUDY FOR DETERMINING REQUIREMENTS OF BIOLOGICAL INFORMATION SERVICES AND SYSTEMS.
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
REPORT NUMBER NSF-C-492
PUB DATE NOV 67
EDRS PRICE MF-$0.25 HC-$1.10 20P.

DESCRIPTORS— *INFORMATION CENTERS, *INFORMATION NEEDS, *INFORMATION SYSTEMS, AMERICAN INSTITUTES FOR RESEARCH, BIOLOGY, COLLEGE SCIENCE, INFORMATION STORAGE, SCIENCE INFORMATION SERVICE, SCIENTISTS, SECONDARY SCHOOL SCIENCE.

ED 017 467
NELSON, CLARENCE H.
IMPROVING OBJECTIVE TESTS IN SCIENCE.
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
PUB DATE 67
EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS. 27P.

DESCRIPTORS— *EVALUATION, *TEST CONSTRUCTION, *TESTING, ACHIEVEMENT TESTS, COLLEGE SCIENCE, EDUCATIONAL OBJECTIVES, ELEMENTARY SCHOOL SCIENCE, NATIONAL SCIENCE TEACHERS ASSOCIATION, OBJECTIVE TESTS, PROBLEM SOLVING, SECONDARY SCHOOL SCIENCE.

ED 017 468
HOPMAN, ANNE B.
HELPING CHILDREN LEARN SCIENCE, A SELECTION OF ARTICLES REPRINTED FROM SCIENCE AND CHILDREN.
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
PUB DATE 66
EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. 195P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *EDUCATIONAL OBJECTIVES, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *RESOURCE MATERIALS, *SCIENCE ACTIVITIES, *SCIENCE EDUCATION, *SCIENCE EQUIPMENT, ASTRONOMY, BIOLOGY, CHEMISTRY, CONCEPT FORMATION, CONSERVATION EDUCATION, DISADVANTAGED YOUTH, EDUCATIONAL PROGRAMS, FIELD TRIPS, GEOLOGY, LEARNING, OCEANOLOGY, OUTDOOR EDUCATION, PROBLEM SOLVING, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE FAIRS.

ED 017 469
BINGHAM, N.E. AND OTHERS
HANDBOOK, TEACHING SCIENCE TO EDUCATIONALLY DISADVANTAGED YOUTH.
SOUTHEASTERN EDUC. LABORATORY, ATLANTA, GA.
PUB DATE 30 JAN 68
EDRS PRICE MF-$0.75 HC-$9.50 188P.

DESCRIPTORS— *DISADVANTAGED YOUTH, *GRADE 7, *GRADE 8, *GRADE 9, *INSTRUCTION, *RESOURCE MATERIALS, *SCIENCE ACTIVITIES, *SCIENCE EDUCATION, *TEACHING GUIDES, BIOLOGY, FLORIDA, GUIDELINES, INSTRUCTIONAL MATERIALS, JACKSONVILLE, PHYSICAL SCIENCES, SECONDARY SCHOOL SCIENCE, SOUTHEASTERN EDUCATIONAL LABORATORY, STUDENT CHARACTERISTICS.

ED 017 470
LEFLER, RALPH W. AND OTHERS
GUIDELINES FOR CONTENT OF PRE-SERVICE PROFESSIONAL EDUCATION FOR SECONDARY SCHOOL SCIENCE TEACHERS.
AMERICAN ASSN. FOR THE ADVANCEMENT OF SCIENCE
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
PUB DATE DEC 67
EDRS PRICE MF-$0.25 HC-$1.35 25P.

DESCRIPTORS— *PRESERVICE EDUCATION, *PROFESSIONAL EDUCATION, *SCIENCE EDUCATION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, GUIDELINES, TEACHER ROLE.

ED 017 471
ASSOCIATION FOR THE EDUCATION OF TEACHERS OF SCIENCE. COMPILATION OF PAPERS AND REPORTS FROM SESSIONS HELD IN CONJUNCTION WITH THE CONVENTION OF THE NATIONAL SCIENCE TEACHERS ASSOCIATION, (NEW YORK CITY, APRIL 1, 2, 1966).
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
PUB DATE 66
EDRS PRICE MF-$0.25 HC-$2.75 53P.

DESCRIPTORS— *DOCTORAL PROGRAMS, *INSTRUCTION, *METHODS COURSES, *PROFESSIONAL EDUCATION, * SCIENCE EDUCATION, *TEACHER CERTIFICATION, *TEACHER EDUCATION, BOTANY, COLLEGE SCIENCE, CULTURALLY DISADVANTAGED, EDUCATIONAL RESEARCH, ELEMENTARY SCHOOL SCIENCE, GRADUATE STUDY, INDIVIDUAL INSTRUCTION, JUNIOR COLLEGES, RESEARCH OPPORTUNITIES, SECONDARY SCHOOL SCIENCE.

ED 017 472
MAHLER, FRED
LIFE AND EARTH SCIENCE, JUNIOR HIGH SCHOOL.
SAM HOUSTON STATE COLL., HUNTSVILLE, TEXAS.
PUB DATE MAY 67
EDRS PRICE MF-$2.25 HC-$30.90 616P.

DESCRIPTORS— *BIOLOGY, *CURRICULUM GUIDES, *EARTH SCIENCE, *EVALUATION, *GRADE 7, *GRADE 8, PROBLEM SOLVING, SECONDARY SCHOOL SCIENCE, TEXAS.

ED 017 473
SCIENCE EDUCATION INFORMATION REPORT, BIBLIOGRAPHY 4, CURRICULUM.
ERIC INFORM. ANAL. CEN. FOR SCI. EDUC., COLUMBUS, OHIO
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$6.10 120P.

DESCRIPTORS— *ABLE STUDENTS, *CHEMISTRY, *COLLEGE SCIENCE, *CONSERVATION EDUCATION, *CURRICULUM, *CURRICULUM DEVELOPMENT, *CURRICULUM GUIDES, *DISADVANTAGED YOUTH, *EARTH SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *GEOLOGY, *INTERNATIONAL EDUCATION, *OUTDOOR EDUCATION, *PHYSICAL SCIENCES, *PHYSICS, *SCIENCE COURSE IMPROVEMENT PROJECT, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, *TEACHING GUIDES, GENERAL SCIENCE, INSERVICE EDUCATION, INTEGRATED CURRICULUM, MATHEMATICS, NATURAL SCIENCES.

ED 017 474
BAKER, JEFFREY, J. W.
BIOLOGY IN A LIBERAL EDUCATION.
REPORT NUMBER CUEBS-PUBLICATION-15
PUB DATE FEB 67
EDRS PRICE MF-$0.25 HC-$2.70 52P.

DESCRIPTORS— *BIOLOGY, *COLLEGE SCIENCE, *CONFERENCE REPORTS, *COURSE CONTENT, *COURSE ORGANIZATION, *CURRICULUM PLANNING, *GENERAL EDUCATION, *UNDERGRADUATE STUDY, COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES, EDUCATIONAL OBJECTIVES, INTEGRATED CURRICULUM, SCIENCE EDUCATION, SECONDARY SCHOOL SCIENCE.

ED 017 476 88
PROJECTS IN IMAGINATIVE NATURE EDUCATION, SURVEY REPORT AND OUTDOOR LABORATORY PLAN.
NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.
REPORT NUMBER DPSC-66-1522
PUB DATE JAN 67
EDRS PRICE MF-$0.50 HC-$3.85 75P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *EDUCATIONAL OBJECTIVES, *EDUCATIONAL PROGRAMS, *OUTDOOR EDUCATION, *PROGRAM PLANNING, ART, BIOLOGY, CONSERVATION EDUCATION, EARTH SCIENCE, ECOLOGY, ELEMENTARY SCHOOL SCIENCE, INSTRUCTION, LANGUAGE ARTS, MATHEMATICS, MUSIC, NATIONAL AUDUBON SOCIETY, NATURE CENTERS, SECONDARY SCHOOL SCIENCE.

ED 017 477
BRAINARD, ROBERT W.
SCIENCE POLICY BULLETIN NUMBER 3.
BATELLE MEMORIAL INST., COLUMBUS, OHIO.
PUB DATE FEB 68
EDRS PRICE MF-$0.25 HC-$2.70 52P.

DESCRIPTORS— *BIBLIOGRAPHIES, *ENGINEERING, *HIGHER EDUCATION, *POLICY FORMATION, *RESEARCH, *SCIENCES, *TECHNOLOGY, ANNOTATED BIBLIOGRAPHIES, CONSERVATION EDUCATION, FINANCIAL SUPPORT, INDUSTRY, INTER-AGENCY COOPERATION, MANAGEMENT, NATURAL RESOURCES, SCIENTIFIC MANPOWER, SCIENTIFIC RESEARCH, SOCIAL SCIENCES.

ED 017 478
BRAINARD, ROBERT W.
SCIENCE POLICY BULLETIN NUMBER 2.
BATTELLE MEMORIAL INST., COLUMBUS, OHIO.
PUB DATE DEC 67
EDRS PRICE MF-$0.25 HC-$2.45 47P.

DESCRIPTORS— *BIBLIOGRAPHIES, *ENGINEERING, *FINANCIAL SUPPORT, *HIGHER EDUCATION, *POLICY FORMATION, *RESEARCH, *SCIENCES, *SOCIAL CHANGE, *TECHNOLOGY, ADULT EDUCATION, ANNOTATED BIBLIOGRAPHIES, CONSERVATION EDUCATION, GRANTS, INTERAGENCY COOPERATION, INTERNATIONAL PROGRAMS, MANAGEMENT, NATURAL RESOURCES, SCIENTIFIC MANPOWER, SCIENTIFIC RESEARCH.

ED 017 479
BRAINARD, ROBERT W.
SCIENCE POLICY BULLETIN NUMBER 1.
BATTELLE MEMORIAL INST., COLUMBUS, OHIO.
PUB DATE OCT 67
EDRS PRICE MF-$0.25 HC-$1.85 35P.

DESCRIPTORS— *BIBLIOGRAPHIES, *ENGINEERING, *FINANCIAL SUPPORT, *HIGHER EDUCATION, *POLICY FORMATION, *RESEARCH, *SCIENTIFIC RESEARCH, *SOCIAL CHANGE, *TECHNOLOGY, ADULT EDUCATION, ANNOTATED BIBLIOGRAPHIES, CONSERVATION EDUCATION, DEVELOPING NATIONS, GRANTS, INTERAGENCY COOPERATION, INTERNATIONAL PROGRAMS, MANAGEMENT, NATURAL RESOURCES, PUBLIC HEALTH, SCIENCES.

ED 017 480
CARVAJAL, JOAN MUNZER, MARTHA E.
CONSERVATION EDUCATION, A SELECTED BIBLIOGRAPHY.
CONSERVATION EDUCATION ASSN., BILLINGS, MONT.
PUB DATE 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES, *CONSERVATION EDUCATION, *INSTRUCTIONAL MATERIALS, *RESOURCE MATERIALS, ADULT EDUCATION, AUDIOVISUAL AIDS, BIOLOGY, BOTANY, COLLEGE SCIENCE, DIRECTORIES, EARTH SCIENCE, ECOLOGY, ELEMENTARY SCHOOL SCIENCE, GENERAL SCIENCE, NATURAL RESOURCES, OUTDOOR EDUCATION, SECONDARY SCHOOL SCIENCE, TEXTBOOKS, ZOOLOGY.

ED 017 481
BIOLOGY FOR THE NON-MAJOR.
COMMITTEE ON UNDERGRADUATE EDUC. BIOLOGICAL SCI.
REPORT NUMBER CUEBS-PUBLICATION-19
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *COLLEGE SCIENCE, *COURSE CONTENT, *COURSE OBJECTIVES, *COURSE ORGANIZATION, *CURRICULUM DEVELOPMENT, *GENERAL EDUCATION, *INSTRUCTIONAL MATERIALS, COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES.

ED 017 926
RAISNER, ARNOLD AND OTHERS
SCIENCE INSTRUCTION IN SPANISH FOR PUPILS OF SPANISH SPEAKING BACKGROUND, AN EXPERIMENT IN BILINGUALISM. FINAL REPORT.
NEW YORK CITY BOARD OF EDUCATION, BROOKLYN, N.Y.
REPORT NUMBER BR-5-1063
REPORT NUMBER CRP-2370
PUB DATE JUN 67
CONTRACT OEC-5-10-033
EDRS PRICE MF-$1.00 HC-$10.15 201P.

DESCRIPTORS— *BILINGUALISM, *JUNIOR HIGH SCHOOL STUDENTS, *PROGRAM EVALUATION, *SCIENCE CURRICULUM, *SPANISH SPEAKING, CURRICULUM EVALUATION, NEW YORK CITY, PARENT STUDENT RELATIONSHIP, PUERTO RICANS, SCIENCE EDUCATION, SCIENCE PROGRAMS, SECOND LANGUAGE LEARNING, SELF CONCEPT.

ED 018 128
WORLD FILM DIRECTORY. AGENCIES CONCERNED WITH EDUCATIONAL, SCIENTIFIC AND CULTURAL FILMS. REPORTS AND PAPERS ON MASS COMMUNICATION, NO. 35.
UNITED NATIONS EDUCATIONAL SCIENTIFIC AND CULT. ORG.
REPORT NUMBER B-1746
PUB DATE 62
EDRS PRICE MF-$0.50 HC-$3.50 68P.

DESCRIPTORS— *DIRECTORIES, *EDUCATIONAL FILMS, *FILMS, AUDIOVISUAL AIDS, FILMSTRIPS, TECHNICAL EDUCATION.

ED 018 133
SCHRAMM, WILBUR
COMMUNICATIONS SATELLITES FOR EDUCATION, SCIENCE AND CULTURE. REPORTS AND PAPERS ON MASS COMMUNICATION, NO. 53.
UNITED NATIONS EDUCATIONAL SCIENTIFIC AND CULT. ORG.
REPORT NUMBER B-2402
PUB DATE 68
EDRS PRICE MF-$0.25 HC-$1.55 29P.

DESCRIPTORS— *COMMUNICATION SATELLITES, *CULTURAL EXCHANGE, *INFORMATION DISSEMINATION, *INTERNATIONAL EDUCATION, *NEWS MEDIA, COMMUNICATIONS, COMSAT, DATA ANALYSIS, DATA COLLECTION, EDUCATION, EXCHANGE PROGRAMS, INFORMATION SCIENCE, INTELSAT, MASS MEDIA, NETWORKS, SCIENCE.

ED 018 237
GOODMAN, ARNOLD F. AND OTHERS
DOD USER-NEEDS STUDY, PHASE II—FLOW OF SCIENTIFIC AND TECHNICAL INFORMATION WITHIN THE DEFENSE INDUSTRY. FINAL REPORT, VOLUME I, OVERVIEW.
NORTH AMERICAN AVIATION INC., ANAHEIM, CALIF.
REPORT NUMBER C6-2442/030-VOL.-1.
PUB DATE 30 NOV 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INFORMATION DISSEMINATION, *INFORMATION NEEDS, *INFORMATION UTILIZATION, *SCIENTIFIC PERSONNEL, *USE STUDIES, COMMUNICATION (THOUGHT TRANSFER), CORRELATION, DEFENSE DOCUMENTATION CENTER (DDC), DEPARTMENT OF DEFENSE (DOD), DOCUMENTATION, ENGINEERS, INFORMATION RETRIEVAL, INFORMATION SOURCES, INTERVIEWS, QUESTIONNAIRES, STATISTICAL ANALYSIS, SURVEYS.

ED 018 358
GROBMAN, SYDNEY
STATUS STUDY OF SCHOOLS TEACHING EARTH AND SPACE SCIENCE IN PENNSYLVANIA 1965—66.
PENNSYLVANIA STATE DEPT. OF PUBLIC INSTRUCTION
PUB DATE JAN 66
EDRS PRICE MF-$0.25 HC-$1.30 24P.

DESCRIPTORS— *CURRICULUM, *EARTH SCIENCE, *SECONDARY SCHOOL SCIENCE, ASTRONOMY, COURSE CONTENT, GENERAL SCIENCE, PENNSYLVANIA, SCIENCE FACILITIES, STUDENT ENROLLMENT.

ED 018 359
MATTHEWS, WILLIAM H., III
PLANETARIUMS, OBSERVATORIES AND EARTH SCIENCE EXHIBITS.
EARTH SCIENCE CURRICULUM PROJECT, BOULDER, COLO.
REPORT NUMBER RS-6
AMERICAN GEOLOGICAL INST. WASHINGTON, D.C.
PUB DATE MAR 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DIRECTORIES, *EARTH SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *EXHIBITS, *SCIENCE FACILITIES, *SECONDARY SCHOOL SCIENCE, CANADA, EARTH SCIENCE CURRICULUM PROJECT, MUSEUMS, PHYSICAL SCIENCES, UNITED STATES.

ED 018 360
BELFIELD, W.
MODELS AND METHODS IN PRACTICAL BIOLOGY FOR SECONDARY SCHOOLS.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *BOTONY, *INSTRUCTIONAL MATERIALS, *LABORATORY PROCEDURES, *PHYSIOLOGY, *RESOURCE MATERIALS, *SECONDARY SCHOOL SCIENCE, *ZOOLOGY, LABORATORY MANUALS, SCIENCE ACTIVITIES, TEXTBOOKS.

ED 018 361
DEL GIORNO, BETTE JOYCE
THE IMPACT OF CHANGING SCIENTIFIC KNOWLEDGE ON SCIENCE EDUCATION IN THE UNITED STATES SINCE 1850.
CONNECTICUT UNIV., STORRS
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM, *EDUCATIONAL PHILOSOPHY, *EDUCATIONAL PSYCHOLOGY, *ELEMENTARY SCHOOL SCIENCE, *SCIENCE EDUCATION, *SCIENCE EDUCATION HISTORY, *SECONDARY SCHOOL SCIENCE, BIOLOGY, CHEMISTRY, DOCTORAL THESES, EDUCATIONAL OBJECTIVES, HISTORY, PHYSICAL SCIENCES, PHYSICS.

ED 018 363
SAWYER, ROGER WILLIAMS FARMER, ROBERT A.
NEW IDEAS FOR SCIENCE FAIR PROJECTS.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *SCIENCE ACTIVITIES, *SCIENCE FAIRS, *SCIENCE MATERIALS, *SCIENCE PROJECTS, *SECONDARY SCHOOL SCIENCE, BIOLOGY, CHEMISTRY, MATHEMATICS.

ED 018 365
DAVIES, DON
THE TEACHER AND HIS STAFF, SELECTED DEMONSTRATION CENTERS.
NATIONAL COMMISSION ON TEACHER EDUC./PROF. STANDS.
NATIONAL EDUCATION ASSN., WASHINGTON, D.C.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *DEMONSTRATION CENTERS, *DIRECTORIES, *DISADVANTAGED YOUTH, *ELEMENTARY EDUCATION, *PROGRAM DESCRIPTIONS, *SECONDARY EDUCATION, *TEACHER EDUCATION, EXCEPTIONAL CHILDREN, INDEPENDENT STUDY, INDIVIDUAL INSTRUCTION, NATIONAL COMMISSION ON TEACHER EDUCATION AND PROFESSIONAL STANDARDS, PROGRAMED MATERIALS, TEACHER EDUCATION AND PROFESSIONAL STANDARDS, TEAM TEACHING, URBAN SCHOOLS.

ED 018 366
FIELD, STANLEY
GUIDE TO OPPORTUNITIES FOR EDUCATION, TRAINING AND RESEARCH IN THE SCIENCES.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DIRECTORIES, *EDUCATIONAL OPPORTUNITIES, *EDUCATIONAL PROGRAMS, *FINANCIAL SUPPORT, *NATURAL SCIENCES, *SCIENCE EDUCATION, *UNDERGRADUATE STUDY, ATOMIC ENERGY COMMISSION, ELEMENTARY SCHOOL TEACHERS, ENGINEERING, FELLOWSHIPS, FOUNDATION PROGRAMS, GRADUATE STUDY, HIGH SCHOOL STUDENTS, INDUSTRY, INSERVICE TEACHER EDUCATION, NATIONAL SCIENCE FOUNDATION, RESEARCH, SCHOLARSHIP FUNDS, SCIENTIFIC RESEARCH, TEACHER EDUCATION.

ED 018 368
BARISCH, SYLVIA
DIRECTORY OF PHYSICS AND ASTRONOMY FACULTIES 1967—1968, UNITED STATES, CANADA, MEXICO.
AMERICAN INST. OF PHYSICS, NEW YORK, N.Y.
REPORT NUMBER R-135.6.
PUB DATE 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ASTRONOMY, *COLLEGE SCIENCE, *COLLEGES, *DIRECTORIES, *FACULTY, *PHYSICS, *UNIVERSITIES, AMERICAN ASSOCIATION OF PHYSICS TEACHERS, AMERICAN INSTITUTE OF PHYSICS, CANADA, COLLEGE TEACHERS, MEXICO, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCES, TEACHERS, UNITED STATES.

ED 018 370
SMITH, FOSTER D. CREAGER, WILLIAM A.
DEVELOPING A COORDINATED INFORMATION PROGRAM FOR GEOLOGICAL SCIENTISTS IN THE UNITED STATES.
AMERICAN GEOLOGICAL INST., WASHINGTON, D.C.
PUB DATE DEC67
EDRS PRICE MF-$0.25 HC-$2.90 56P.

DESCRIPTORS— *EARTH SCIENCE, *INFORMATION DISSEMINATION, *INFORMATION RETRIEVAL, *INFORMATION STORAGE, *INFORMATION SYSTEMS, AMERICAN GEOLOGICAL INSTITUTE, INFORMATION SOURCES, NATIONAL SCIENCE FOUNDATION, PROGRAM DESCRIPTIONS.

ED 018 371 24
TURNER, GEORGE C. HETTICK, VERGIL
AN EVALUATIVE STUDY OF TEACHER CONSTRUCTED TEST ITEMS FOR BSCS BIOLOGY. FINAL REPORT.
CALIFORNIA STATE COLL., FULLERTON
REPORT NUMBER BR-6-8919
PUB DATE DEC 67
CONTRACT OEC-4-7-068919-3041
EDRS PRICE MF-$1.25 HC-$16.95 337P.

DESCRIPTORS— *ACHIEVEMENT TESTS, *BIOLOGY, *EVALUATION, *MULTIPLE CHOICE TESTS, *OBJECTIVE TESTS, *SCIENCE TESTS, *SECONDARY SCHOOL SCIENCE, *TEST CONSTRUCTION, BIOLOGICAL SCIENCES CURRICULUM STUDY YELLOW VERSION, TESTS.

ED 018 374 88
NUCLEAR SCIENCE CURRICULUM PROJECT. INSTRUCTIONAL RESOURCES SUPPLEMENT.
CULVER CITY UNIFIED SCHOOL DISTRICT, CALIF.
REPORT NUMBER DPSC-66-1824
PUB DATE 68
EDRS PRICE MF-$0.75 HC-$7.25 143P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *CURRICULUM DEVELOPMENT, *INSTRUCTIONAL MATERIALS, *NUCLEAR PHYSICS, *PHYSICAL SCIENCES, *PHYSICS, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, BIBLIOGRAPHIES, FILMS, FILMSTRIPS, INSERVICE TEACHER EDUCATION, NUCLEAR SCIENCE CURRICULUM PROJECT, SAFETY, SCIENCE EQUIPMENT, SCIENCE FACILITIES, SCIENCE MATERIALS, TEACHER EDUCATION.

ED 018 375 88
CAMAREN, JAMES
NUCLEAR SCIENCE CURRICULUM PROJECT, PROJECT I, INSTRUCTIONAL SPECIFICATIONS.
CULVER CITY UNIFIED SCHOOL DISTRICT, CALIF.
REPORT NUMBER DPSC-66-1824
PUB DATE 68
EDRS PRICE MF-$1.25 HC-$14.75 293P.

DESCRIPTORS— *ATOMIC STRUCTURE, *ATOMIC THEORY, *BEHAVIORAL OBJECTIVES, *CURRICULUM DEVELOPMENT, EDUCATIONAL OBJECTIVES, *INSTRUCTION, *NUCLEAR PHYSICS, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, CHEMISTRY, CURRICULUM, NUCLEAR SCIENCE CURRICULUM PROJECT, PHYSICAL SCIENCES, PHYSICS, SYSTEMS ANALYSIS.

ED 018 376 88
GILFILLAN, WARREN C. BURGESS, ROBERT A.
THE FIELD STUDY NOTEBOOK FOR THE OUTDOOR SCHOOL.
REPORT NUMBER DPSC-66-441
PUB DATE 66
EDRS PRICE MF-$0.50 HC-$3.20 62P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *FIELD STUDIES, *INSTRUCTIONAL MATERIALS, *OUTDOOR EDUCATION, BOTANY, EARTH SCIENCE, ECOLOGY, FIELD INSTRUCTION, NATURAL RESOURCES, OREGON, PORTLAND, REGIONAL OUTDOOR EDUCATION PROGRAM, STUDENT PROJECTS.

ED 018 377
FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND OTHER SCIENTIFIC ACTIVITIES, FISCAL YEARS 1965, 1966 AND 1967.
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
REPORT NUMBER NSF-66-25
PUB DATE 66
EDRS PRICE MF-$1.00 HC-10.25 203P.

DESCRIPTORS— *FEDERAL AID, *FEDERAL GOVERNMENT, *FEDERAL PROGRAMS, *INFORMATION CENTERS, *INFORMATION DISSEMINATION, *RESEARCH, *SCIENTIFIC RESEARCH, AND WELFARE, ATOMIC ENERGY COMMISSION, DEPARTMENT OF DEFENSE, DEPARTMENT OF HEALTH, EDUCATION, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, NATIONAL INSTITUTE OF HEALTH, PROGRAM COSTS, TECHNOLOGICAL ADVANCEMENT.

ED 018 379
PERLMAN, JACOB
CURRENT PROJECTS ON ECONOMIC AND SOCIAL IMPLICATIONS OF SCIENCE AND TECHNOLOGY 1964.
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
PUB DATE JUN 65
EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS 189P.

DESCRIPTORS— *DIRECTORIES, *NATURAL SCIENCES, *RESEARCH PROJECTS, *SCIENTIFIC MANPOWER, *SOCIOECONOMIC INFLUENCES, ADMINISTRATIVE ORGANIZATION, AGRICULTURE, CULTURAL FACTORS, ECONOMIC DEVELOPMENT, ECONOMIC FACTORS, HISTORY, INDUSTRY, INTERNATIONAL PROGRAMS, MANAGEMENT, MANPOWER NEEDS, OFFICE OF ECONOMIC AND MANPOWER STUDIES, PSYCHOLOGY, SOCIOLOGY, TECHNOLOGICAL ADVANCEMENT. TECHNOLOGY.

ED 018 380
EISS, ALBERT
THE USE OF EDUCATIONAL TECHNOLOGY IN PROVIDING KNOWLEDGE OF EDUCATIONAL TECHNOLOGY AND SUGGESTIONS FOR ITS APPLICATION TO SCIENCE SUPERVISORS. FINAL REPORT.
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
REPORT NUMBER BR-7-C-006
PUB DATE JAN 68
CONTRACT OEC-1-7-070006-3789
EDRS PRICE MF-$0.25 HC-$2.35 45P.

DESCRIPTORS— *EDUCATIONAL PROGRAMS, *INSERVICE EDUCATION, *PROGRAMED MATERIALS, *SCIENCE SUPERVISION, *SUPERVISION, BIBLIOGRAPHIES, EDUCATIONAL OBJECTIVES, EDUCTIONAL RESEARCH, INSTRUCTIONAL MATERIALS, SCHOOL INDUSTRY RELATIONSHIP, SUPERVISORS, WORKSHOPS.

ED 018 381
CULL, R.G. AND OTHERS
OBJECTIVE TESTS IN SCIENCE FOR THIRD LEVEL N.S.W. HIGHER SCHOOL CERTIFICATE.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACHIEVEMENT TESTS, *EVALUATION, *SCIENCE TESTS, *SECONDARY SCHOOL SCIENCE,*TESTING, AUSTRALIA, BIOLOGY, CHEMISTRY, EARTH SCIENCE, ESSAY TESTS, GENERAL SCIENCE, MULTIPLE CHOICE TESTS, NEW SOUTH WALES, OBJECTIVE TESTS, PHYSICAL SCIENCES, PHYSICS.

ED 018 382
MAHLER, FRED
APPENDIX AND BIBLIOGRAPHY TO BE USED WITH LIFE AND EARTH SCIENCE GUIDES.
COOPERATIVE CURRICULUM CTR. FOR IMP. OF EDUC. OPPOR.
PUB DATE SEP 67
EDRS PRICE MF-$0.50 HC-$3.25 63P.

DESCRIPTORS— *BIBLIOGRAPHIES, *BIOLOGY, *EARTH SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCIENCES, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, BOOKS, CURRICULUM GUIDES, TEACHING TECHNIQUES, TEXTBOOKS.

ED 018 383
GILFILLAN, WARREN C. BURGESS, ROBERT A.
THE TEACHERS' HANDBOOK FOR THE OUTDOOR SCHOOL.
PUB DATE 66
EDRS PRICE MF-$0.25 HC-$2.10 40P.

DESCRIPTORS— *CURRICULUM,*EDUCATIONAL PROGRAMS,*ELEMENTARY SCHOOL SCIENCE, *OUTDOOR EDUCATION, *PROGRAM DESCRIPTIONS, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, ART, BIOLOGY, CONSERVATION EDUCATION, CURRICULUM DEVELOPMENT, EARTH SCIENCE, ECOLOGY, HEALTH EDUCATION, LANGUAGE ARTS, MATHEMATICS, MUSIC, NATURAL RESOURCES, OREGON, PHYSICAL EDUCATION, PORTLAND, REGIONAL OUTDOOR EDUCATION PROGRAMS, SCIENCE EDUCATION, SOCIAL STUDIES.

ED 018 385
ASTRONOMY 88
LOUISIANA ARTS AND SCIENCE CENTER, BATON ROUGE
REPORT NUMBER DPSC-66-1332-1
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$5.50 108P.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES, *ASTRONOMY, *CURRICULUM, *ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCIENCES, *SECONDARY SCHOOL SCIENCE, AUDIOVISUAL AIDS, BATON ROUGE, BIBLIOGRAPHIES, CURRICULUM DEVELOPMENT, LOUISIANA, LOUISIANA ARTS AND SCIENCE CENTER, SCIENCE ACTIVITIES, SCIENCE UNITS, STUDENT PROJECTS, TEACHING GUIDES, TEACHING TECHNIQUES, WORLD BOOK ENCYCLOPEDIA.

ED 018 386 88
THE SYSTEMS OF THE HUMAN BODY.
LOUISIANA ARTS AND SCIENCE CENTER, BATON ROUGE
REPORT NUMBER DPSC-66-1332-1
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$3.10 60P.

DESCRIPTORS— *BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *HUMAN BODY, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, BATON ROUGE, BIBLIOGRAPHIES, HEALTH EDUCATION, LOUISIANA, LOUISIANA ARTS AND SCIENCE CENTER, OBJECTIVE TESTS, SCIENCE UNITS, TEACHING GUIDES, TESTS.

ED 018 388 88
UNIT, PETROLOGY.
LOUISIANA ARTS AND SCIENCE CENTER, BATON ROUGE
REPORT NUMBER DPSC-66-1332-1
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$1.90 36P.

DESCRIPTORS— *CURRICULUM, *EARTH SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCIENCES, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, AUDIOVISUAL AIDS, BATON ROUGE, BIBLIOGRAPHIES, INSTRUCTIONAL MATERIALS, LOUISIANA, LOUISIANA ARTS AND SCIENCE CENTER, SCIENCE UNITS, STUDENT PROJECTS, TEACHING TECHNIQUES, WORLD BOOK ENCYCLOPEDIA.

ED 018 391 24
BALABANIAN, NORMAN LEPAGE, WILBUR R.
ELECTRICAL SCIENCE COURSE FOR ENGINEERING COLLEGE SOPHOMORES, DEVELOPMENT OF AN INTEGRATED PROGRAM UTILIZING A BROAD RANGE OF MATERIALS. FINAL REPORT.
SYRACUSE UNIV., N.Y., DEPT. OF ELECTRICAL ENG.
REPORT NUMBER BR-5-0796
PUB DATE JAN 67
CONTRACT OEC-4-10-102
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM, *EDUCATIONAL PROGRAMS, *ELECTRICITY, *ENGINEERING, *PHYSICAL SCIENCES, *PROGRAMED INSTRUCTION, *SCIENCE COURSES, CREATIVITY, CURRICULUM DEVELOPMENT, DISCOVERY LEARNING, EDUCATIONAL OBJECTIVES, INSTRUCTION, LEARNING, PROGRAM DESCRIPTIONS, SYRACUSE UNIVERSITY, UNDERGRADUATE STUDY.

ED 018 392 08
LESCARBEAU, ROLAND F. AND OTHERS
A SUGGESTED CURRICULUM GUIDE FOR ELECTROMECHANICAL TECHNOLOGY ORIENTED SPECIFICALLY TO THE COMPUTER AND BUSINESS MACHINE FIELDS. INTERIM REPORT.
HARTFORD UNIV., CONN., WARD TECHNICAL INSTITUTE.
REPORT NUMBER BR-6-1489
PUB DATE 21 FEB 68
GRANT OEG-1-6-061489-2022
EDRS PRICE MF-$0.50 HC-$3.50 68P.

DESCRIPTORS— *COLLEGE SCIENCE, *COMPUTERS, *CURRICULUM, *DATA PROCESSING, *ELECTRONICS, *INDUSTRIAL EDUCATION, *PHYSICAL SCIENCES, *TEACHING GUIDES, *TECHNICAL EDUCATION, AUDIOVISUAL AIDS, CURRICULUM DEVELOPMENT, DUNWOODY INDUSTRIAL INSTITUTE, EDUCATIONAL OBJECTIVES, EDUCATIONAL PROGRAMS, FACULTY, MATHEMATICS, OREGON TECHNICAL INSTITUTE, PHYSICS, PROFESSIONAL ASSOCIATIONS, TECHNICAL OCCUPATIONS, TEXTBOOKS.

ED 018 395
ANNUAL REPORT 1967
ENGINEERING MANPOWER COMMISSION, NEW YORK, N.Y.
PUB DATE FEB 68
EDRS PRICE MF-$0.25 HC-$1.45 27P.

DESCRIPTORS— *ANNUAL REPORTS, *EMPLOYMENT STATISTICS, *ENGINEERING, *ENGINEERING TECHNICIANS, *ENGINEERS, *SCIENTIFIC MANPOWER, DIRECTORIES, ENGINEERING MANPOWER COMMISSION, ENGINEERS JOINT COUNCIL, FINANCIAL SUPPORT, PHYSICAL SCIENCES, PROFESSIONAL ASSOCIATIONS, SALARIES, SCIENTISTS.

ED 018 396
TRAIN, RUSSELL E.
A CRITICAL INDEX OF FILMS AND FILMSTRIPS IN CONSERVATION DEALING WITH RENEWABLE RESOURCES, NON-RENEWABLE RESOURCES, RESOURCES AND PEOPLE, AND ECOLOGY.
CONSERVATION FOUNDATION, WASHINGTON, D.C.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONSERVATION EDUCATION, *FILMS, *FILMSTRIPS, *INSTRUCTIONAL MATERIALS, ADULT EDUCATION, AUDIOVISUAL AIDS, BIOLOGY, COLLEGE SCIENCE, EARTH SCIENCE, ELEMENTARY SCHOOL SCIENCE, GENERAL SCIENCE, INSTRUCTIONAL FILMS, NATURAL RESOURCES, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE.

ED 018 399
LABORATORY EXERCISES IN OCEANOGRAPHY FOR HIGH SCHOOLS.
FLORIDA ST. UNIV., TALLAHASSEE
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
REPORT NUMBER GW-1752
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$4.60 90P.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS, *OCEANOLOGY, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, BIOLOGY, EARTH SCIENCE, LABORATORY TECHNIQUES, NATIONAL SCIENCE FOUNDATION, RESOURCE MATERIALS, SCIENCE EQUIPMENT.

ED 018 400
YAGER, ROBERT E. COSSMAN, GEORGE W.
GUIDELINES FOR THE DEVELOPMENT OF A COURSE FOR SECONDARY SCHOOLS EMPHASIZING THE INTERACTION OF SCIENCE AND THE CULTURE OF MAN. FINAL REPORT.
IOWA UNIV., IOWA CITY
REPORT NUMBER BR 6-8445
PUB DATE JAN 66
CONTRACT OEC-3-7-068445-0374
EDRS PRICE MF-$0.75 HC-$8.05 159P.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *CURRICULUM DEVELOPMENT, *EVALUATION, *SCIENTIFIC LITERACY, *SOCIAL STUDIES, *SOCIOECONOMIC INFLUENCES, COURSE DESCRIPTIONS, CRITICAL THINKING, CURRICULUM, FACTS ABOUT SCIENCE, GRADE 11, GRADE 12, INSTRUCTIONAL MATERIALS, SCIENCE OPINION SURVEY, SECONDARY SCHOOL SCIENCE, STANFORD ADVANCED SCIENCE ACHIEVEMENT TEST, STUDY OF VALUES, TEST ON UNDERSTANDING SCIENCE, VALUES, WATSON-GLASER CRITICAL THINKING APPRAISAL.

ED 018 401
SULCOSKI, JOHN W.
NUCLEAR SCIENCE, AN INTRODUCTORY COURSE.
WILKES-BARRE CITY SCHOOLS, PA.
PUB DATE 67
GRANT OEG-3-7-703497-3783
EDRS PRICE MF-$0.50 HC-$4.15 81P.

DESCRIPTORS— *ATOMIC THEORY, *CHEMISTRY, *CURRICULUM DEVELOPMENT, *CURRICULUM GUIDES, *LABORATORY SAFETY, *NUCLEAR PHYSICS, *PHYSICAL SCIENCES, *PHYSICS, *TEACHING GUIDES, AUDIOVISUAL AIDS, BIBLIOGRAPHIES, BIOLOGY, CURRICULUM, FILMS, SCIENCE ACTIVITIES, SCIENCE EQUIPMENT, SCIENCE FACILITIES, SCIENCE MATERIALS, WILKES BARRE CITY SCHOOLS.

ED 018 566
KANTASEWI, NIPHON MC CLAY, DAVID R.
EXPERIMENTS IN THE USE OF PROGRAMED MATERIALS IN TEACHING AN ELEMENTARY COLLEGE COURSE IN THE BIOLOGICAL SCIENCES. TEACHER EDUCATION RESEARCH SERIES, VOLUME 5, NUMBER 1.
PENNSYLVANIA STATE UNIV., UNIVERSITY PARK
REPORT NUMBER TER-5-NO-1
PUB DATE 64
EDRS PRICE MF-$0.25 HC-$1.30 24P.

DESCRIPTORS— *BIOLOGICAL SCIENCES, *COLLEGE STUDENTS, *CONVENTIONAL INSTRUCTION, *PROGRAMED INSTRUCTION, *TEACHING METHODS, COMPARATIVE ANALYSIS, EDUCATIONAL EXPERIMENTS, GROUP DISCUSSION, LECTURE, PROBLEM SOLVING, TEST SCORES.

ED 018 979
KRULIK, STEPHEN KAUFMAN, IRWIN
HOW TO USE THE OVERHEAD PROJECTOR IN MATHEMATICS EDUCATION.
PUB DATE 66
EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS. 32P.

DESCRIPTORS— *MATHEMATICS EDUCATION, *OVERHEAD PROJECTORS, *TRANSPARENCIES, PROJECTION EQUIPMENT, TEACHER DEVELOPED MATERIALS.

ED 018 991
SHAPOVALENKO, S. G.
PROGRAMED TEACHING OF CHEMISTRY.
JOINT PUBLICATION RESEARCH SERVICE, WASHINGTON, D. C.
REPORT NUMBER JPRS-22,730
REPORT NUMBER OTS-64-21287
PUB DATE 14 JAN 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ALGORITHMS, *CHEMISTRY INSTRUCTION, *CYBERNETICS, *PROGRAMED INSTRUCTION, ACADEMIC ACHIEVEMENT, CONVENTIONAL INSTRUCTION, EDUCATIONAL OBJECTIVES, FEEDBACK, GRADE 7, LEARNING PROCESSES, MOSCOW, MOSCOW STATE PEDAGOGICAL INSTITUTE, SCHOOL NO. 715, SEQUENTIAL LEARNING, USSR.

ED 019 092
SHILLING, CHARLES W. BERMAN, BRUCE
SCIENCE INFORMATION SPECIALIST TRAINING PROGRAM, A PROGRESS REPORT.
GEORGE WASHINGTON UNIV., WASHINGTON, D. C.
REPORT NUMBER BSCP-COMMUNIQUE-28-68
PUB DATE MAR 68
EDRS PRICE MF-$0.25 HC-$1.65 31P.

DESCRIPTORS— *ADMINISTRATION, *BIOLOGICAL SCIENCES, *EDUCATIONAL PROGRAMS, *INFORMATION SCIENCE, *MEDICAL LIBRARIES, AMERICAN UNIVERSITY, BIOLOGICAL SCIENCES COMMUNICATION PROJECT (BSCP), COURSE DESCRIPTIONS, GRADUATE STUDY, INFORMATION CENTERS, INFORMATION SPECIALISTS, INFORMATION THEORY, MANAGEMENT, NATIONAL LIBRARY OF MEDICINE, ON THE JOB TRAINING, UNIVERSITIES, WASHINGTON, D. C.

ED 019 101
AN OVERVIEW OF WORLDWIDE CHEMICAL INFORMATION FACILITIES AND RESOURCES.
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D. C.
PUB DATE SEP 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CHEMISTRY, *DOCUMENTATION, *INFORMATION SERVICES, *INFORMATION SYSTEMS, *SURVEYS, ABSTRACTS, AUTOMATION, INDEXES, INFORMATION CENTERS, LIBRARIES, PUBLISHING INDUSTRY, SCHOLARLY JOURNALS.

ED 019 212
CARNES, PHYLLIS EILEEN
AN EXPERIMENTAL STUDY IN THE USE OF PROGRAMMED MATERIALS FOR SEVENTH-GRADE OPEN-ENDED LABORATORY EXPERIENCES.
GEORGIA UNIV., ATHENS
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DOCTORAL THESES, *GENERAL SCIENCE, *INSTRUCTIONAL MATERIALS, *PROGRAMED INSTRUCTION, *PROGRAMED MATERIALS, *SECONDARY SCHOOL SCIENCE, *TEACHING PROCEDURES, COMPARATIVE ANALYSIS, CONCEPT FORMATION, CONVENTIONAL INSTRUCTION, GRADE 7, INSTRUCTION, KUDER GENERAL INTEREST SURVEY, LEARNING, OPEN ENDED EXPERIMENTS, SCIENCE ACTIVITIES.

ED 019 213
BROWN, SANBORN C. CLARKE, NORMAN
THE EDUCATION OF A PHYSICIST, AN ACCOUNT OF THE INTERNATIONAL CONFERENCE ON THE EDUCATION OF PROFESSIONAL PHYSICISTS.
LONDON 15—21, 1965.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CONFERENCE REPORTS, *EDUCATIONAL PROGRAMS, *GRADUATE STUDY, *INTERNATIONAL EDUCATION, CURRICULUM, ENGINEERING EDUCATION, GOVERNMENT ROLE, INDUSTRY, LONDON, MATHEMATICS EDUCATION, PHYSICAL SCIENCES, PHYSICS, PROFESSIONAL EDUCATION, RESEARCH, SCIENCE EDUCATION, SCIENTISTS, TEACHING TECHNIQUES, UNDERGRADUATE STUDY.

ED 019 214
CHANDLER, MARION N.
ILLUSTRATED HANDBOOK OF SOME COMMON MOLDS.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *MICROBIOLOGY, *RESOURCE MATERIALS, *SCIENCE COURSE IMPROVEMENT PROJECT, EDUCATIONAL SERVICES INCORPORATED, ELEMENTARY SCIENCE STUDY, NATIONAL SCIENCE FOUNDATION, SECONDARY SCHOOL SCIENCE.

ED 019 215
CHANDLER, MARION N.
TEACHER'S GUIDE FOR MICROGARDENING.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *MICROBIOLOGY, *SCIENCE ACTIVITIES, *SCIENCE MATERIALS, *TEACHING GUIDES, EDUCATIONAL SERVICES INCORPORATED, ELEMENTARY SCIENCE STUDY, INSTRUCTIONAL MATERIALS, NATIONAL SCIENCE FOUNDATION, RESOURCE MATERIALS, SCIENCE COURSE IMPROVEMENT PROJECT, SECONDARY SCHOOL SCIENCE

ED 019 216
CHANDLER, MARION N.
THE MICROGARDENING, COOKBOOK, DIRECTIONS FOR PREPARING DISHES AND TUBES OF STERILE NUTRIENT AGAR.
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *MICROBIOLOGY, *RESOURCE MATERIALS, SCIENCE COURSE IMPROVEMENT PROJECT, EDUCATIONAL SERVICES INCORPORATED, ELEMENTARY SCIENCE STUDY, NATIONAL SCIENCE FOUNDATION, SCIENCE MATERIALS, TEACHING GUIDES.

ED 019 217
PEAS AND PARTICLES, TEACHER'S GUIDE.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *SCIENCE ACTIVITIES, *SCIENCE COURSE IMPROVEMENT PROJECT, *TEACHING GUIDES, AUDIOVISUAL AIDS, EDUCATIONAL SERVICES INCORPORATED, ELEMENTARY SCIENCE STUDY, INSTRUCTION, MATHEMATICS, NATIONAL SCIENCE FOUNDATION, RESOURCE MATERIALS, SCIENCE UNITS.

ED 019 218
MESSERSCHMIDT, RALPH M. KARTSOTIS, A THOMAS
ELEMENTARY SCIENCE OUTLINE, A GUIDE TO SUGGESTED CURRICULUM PRACTICES IN ELEMENTARY SCHOOL SCIENCE.
LEHIGH VALLEY SCHOOL STUDY COUNCIL, ALLENTOWN, PA.
PUB DATE 66
EDRS PRICE MF-$0.75 HC-$8.05 159P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE,*GENERAL SCIENCE, ACOUSTICS, BIBLIOGRAPHIES, EARTH SCIENCE, ELECTRICITY, FIELD TRIPS, HEALTH EDUCATION, HEAT, INSTRUCTION, LIGHT, PHYSICAL SCIENCES, PROBLEM SOLVING, TEACHING GUIDES, TEACHING PROCEDURES.

ED 019 219
MATTHEWS, WILLIAM H., III
SELECTED REFERENCES FOR EARTH SCIENCE COURSES.
EARTH SCIENCE CURRICULUM PROJECT, BOULDER, COLO.
REPORT NUMBER RS-2
PUB DATE MAR 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ASTRONOMY, *EARTH SCIENCE, *GEOLOGY, *INSTRUCTION, *INSTRUCTIONAL MATERIALS, BIBLIOGRAPHIES, CAREER PLANNING, CAREERS, COLLEGE SCIENCE, CONSERVATION EDUCATION, EARTH SCIENCE CURRICULUM PROJECT, ELEMENTARY SCHOOL SCIENCE, FIELD TRIPS, LABORATORY MANUALS, METEOROLOGY, NATIONAL SCIENCE FOUNDATION, OCEANOLOGY, PHYSICAL GEOGRAPHY, REFERENCE BOOKS, REFERENCE MATERIALS, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE, TEACHING GUIDES, TEXTBOOKS.

ED 019 220 72
POLJAKOFF-MAYBER, ALEXANDRA
STUDY OF BIOLOGY TEACHING AND THE PROSPECT OF ADAPTATION OF THE BSCS PROGRAM FOR HIGH SCHOOLS IN ISRAEL, FINAL REPORT.
HEBREW UNIV., JERUSALEM (ISRAEL)
REPORT NUMBER BR-5-1407
PUB DATE 66
EDRS PRICE MF-$0.25 HC-$0.70 12P.

DESCRIPTORS— *BIOLOGY, *CURRICULUM, *CURRICULUM DEVELOPMENT, *INTERNATIONAL EDUCATION, *SCIENCE COURSE IMPROVEMENT PROJECT, ACADEMIC ACHIEVEMENT, BIOLOGICAL SCIENCES CURRICULUM STUDY, COMPARATIVE ANALYSIS, EDUCATIONAL PROGRAMS, EVALUATION, GRADE 9, ISRAEL, SECONDARY SCHOOL SCIENCE, STUDENT ATTITUDES, TEST ON UNDERSTANDING SCIENCE.

ED 019 222
BATTERIES AND BULBS, BOOK I, CIRCUITS I, AN EARLY EXPLORATION OF ELECTRICAL CIRCUITS AND MAGNETS
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COCURRICULAR ACTIVITIES, *ELECTRICITY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *MAGNETS, EDUCATIONAL SERVICES INCORPORATED, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCES, SCIENCE COURSE IMPROVEMENT PROJECT, SECONDARY SCHOOL SCIENCE, TEACHING GUIDES.

ED 019 223
BATTERIES AND BULBS, BOOK 2, CIRCUITS AND MAGNETS.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELECTRIC BATTERIES, *ELECTRIC CIRCUITS, *ELECTRICITY,*ELEMENTARY SCHOOL SCIENCE, *MAGNETS, EDUCATIONAL SERVICES INCORPORATED, INSTRUCTION, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SECONDARY SCHOOL SCIENCE, TEACHING GUIDES.

ED 019 225
BOULIND, HENRY F.
THE 1966 REPORT ON THE TEACHING OF ELECTRICITY. A REPORT OF A SUB-COMMITTEE OF THE ASSOCIATION FOR SCIENCE EDUCATION.
ASSOCIATION FOR SCIENCE EDUC., CAMBRIDGE (ENGLAND)
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ELECTRICITY, *INSTRUCTION, *PHYSICAL SCIENCES, *SECONDARY SCHOOL SCIENCE, ASSOCIATION FOR SCIENCE EDUCATION, BIBLIOGRAPHIES, CURRICULUM, GREAT BRITAIN, PHYSICS, SCIENCE ACTIVITIES, SCIENCE EQUIPMENT, TEACHING GUIDES.

ED 019 227
REORGANIZED SCIENCE CURRICULUM, 6A, SIXTH GRADE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
PUB DATE 01 DEC 64
EDRS PRICE MF-$0.75 HC-$7.70 152P.

DESCRIPTORS— *CHEMISTRY, *CURRICULUM, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *GRADE 6, ASTRONOMY, BIOLOGY, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, TEACHING GUIDES.

ED 019 228
REORGANIZED SCIENCE CURRICULUM, 7B.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
EDRS PRICE MF-$1.25 HC-$13.50 268P.

DESCRIPTORS— *BIBLIOGRAPHIES, *CURRICULUM DEVELOPMENT, *GRADE 7, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, BIOLOGY, CURRICULUM, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 229
REORGANIZED SCIENCE CURRICULUM, 7A, GRADE SEVEN SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
PUB DATE 21 OCT 66
EDRS PRICE MF-$0.50 HC-$3.40 66P.

DESCRIPTORS— *BIOLOGY, *CURRICULUM DEVELOPMENT, *GRADE 7, *SCIENTIFIC ATTITUDES, *SECONDARY SCHOOL SCIENCE, CURRICULUM, ECOLOGY, ELEMENTARY SCHOOL SCIENCE, INSTRUCTIONAL MATERIALS, LABORATORY TECHNIQUES, MINNEAPOLIS, MINNESOTA, SCIENCE ACTIVITIES, SCIENCE COURSES, TEACHING GUIDES.

ED 019 230
REORGANIZED SCIENCE CURRICULUM, 6C, SIXTH GRADE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
EDRS PRICE MF-$0.75 HC-$6.70 132P.

DESCRIPTORS— *ASTRONOMY, *BIBLIOGRAPHIES, *CHEMISTRY, *CURRICULUM, *CURRICULUM DEVELOPMENT, BIOLOGY, EARTH SCIENCE, ELEMENTARY SCHOOL SCIENCE, GRADE 6, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE EQUIPMENT, SCIENCE MATERIALS, TEACHING GUIDES.

ED 019 231
REORGANIZED SCIENCE CURRICULUM, 3, GRADE THREE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
PUB DATE 01 OCT 62
EDRS PRICE MF-$0.75 HC-$8.85 175P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *TEACHING GUIDES, ASTRONOMY, BIBLIOGRAPHIES, BIOLOGY, EARTH SCIENCE, GRADE 3, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 232
REORGANIZED SCIENCE CURRICULUM, 4A, FOURTH GRADE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
PUB DATE 01 MAR 65
EDRS PRICE MF-$0.75 HC-$9.60 190P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *ECOLOGY, *ELEMENTARY SCHOOL SCIENCE, *GRADE 4, ASTRONOMY, BIOLOGY, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, TEACHING GUIDES.

ED 019 233
REORGANIZED SCIENCE CURRICULUM, 5A, FIFTH GRADE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
PUB DATE 01 DEC 64
EDRS PRICE MF-$0.50 HC-$6.40 126P.

DESCRIPTORS—*CURRICULUM,*CURRICULUM DEVELOPMENT,*ELEMENTARY SCHOOL SCIENCE, *GRADE 5, *TEACHING GUIDES, ASTRONOMY, BIOLOGY, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES.

ED 019 234
REORGANIZED SCIENCE CURRICULUM, 2, GRADE TWO SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
PUB DATE 01 OCT 62
EDRS PRICE MF-$0.75 HC-$9.55 189P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *GRADE 2, *TEACHING GUIDES, ASTRONOMY, BIBLIOGRAPHIES, BIOLOGY, CURRICULUM, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 235
REORGANIZED SCIENCE CURRICULUM, 4B, FOURTH GRADE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
EDRS PRICE MF-$0.75 HC-$6.85 135P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT,*ELEMENTARY SCHOOL SCIENCE, *GRADE 4, *TEACHING GUIDES, ASTRONOMY, BIBLIOGRAPHIES, BIOLOGY, EARTH SCIENCE, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 236
REORGANIZED SCIENCE CURRICULUM, K, KINDERGARTEN SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
PUB DATE 01 OCT 62
EDRS PRICE MF-$0.75 HC-$7.10 140P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *KINDERGARTEN, *TEACHING GUIDES, ASTRONOMY, BIBLIOGRAPHIES, BIOLOGY, CURRICULUM, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 237
REORGANIZED SCIENCE CURRICULUM, 6B, A RESOURCE UNIT TO BE TAUGHT IN GRADE SIX.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
EDRS PRICE MF-$1.00 HC-$12.20 242P.

DESCRIPTORS— *ASTRONOMY, *CURRICULUM, *CURRICULUM DEVELOPMENT, *GRADE 6, *TEACHING GUIDES, EARTH SCIENCE, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES.

ED 019 238
REORGANIZED SCIENCE CURRICULUM, 5B, FIFTH GRADE SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
EDRS PRICE MF-$0.75 HC-$8.75 173P.

DESCRIPTORS— *BIBLIOGRAPHIES, *CURRICULUM, *CURRICULUM DEVELOPMENT, *GRADE 5, *TEACHING GUIDES, ASTRONOMY, BIOLOGY, EARTH SCIENCE, MINNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES, SCIENCE ACTIVITIES, SCIENCE COURSES, SCIENCE EQUIPMENT, SCIENCE MATERIALS.

ED 019 239
REORGANIZED SCIENCE CURRICULUM, 10A, BIOLOGY SUPPLEMENT.
MINNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1, MINN.
PUB DATE 09 DEC 66
EDRS PRICE MF-$0.75 HC-$7.45 147P.

DESCRIPTORS— *BIOLOGY, *CURRICULUM DEVELOPMENT, *ECOLOGY, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, BIBLIOGRAPHIES, CURRICULUM, GRADE 10, INSTRUCTION, INSTRUCTIONAL MATERIALS, MINNEAPOLIS, MINNESOTA, TEACHING TECHNIQUES.

D 019 240
EORGANIZED SCIENCE CURRICULUM, 9, NINTH
RADE SUPPLEMENT
INNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1,
INN.
JB DATE 21 OCT 66
DRS PRICE MF-$0.75 HC-$9.80 194P.

ESCRIPTORS— *CURRICULUM, *CURRICULUM
EVELOPMENT, *GRADE 9, *SCIENTIFIC
TTITUDES, *SECONDARY SCHOOL SCIENCE,
STRONOMY, BIBLIOGRAPHIES, EARTH SCIENCE,
INNEAPOLIS, MINNESOTA, SCIENCE ACTIVITIES,
CIENCE EQUIPMENT, SCIENCE MATERIALS,
EACHING GUIDES.

D 019 241
EORGANIZED SCIENCE CURRICULUM, 8, GRADE
GHT SUPPLEMENT
INNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1,
INN.
JB DATE 21 OCT 66
DRS PRICE MF-$0.50 HC-$3.70 72P.

ESCRIPTORS— *BIBLIOGRAPHIES, *CUR-
CULUM, *CURRICULUM DEVELOPMENT, *EARTH
IENCE, *GRADE 8, ASTRONOMY, GEOLOGY,
STRUCTIONAL MATERIALS, METEOROLOGY,
INNEAPOLIS, MINNESOTA, PHYSICAL SCIENCES,
IENCE ACTIVITIES, SCIENCE EQUIPMENT,
CIENCE MATERIALS, SECONDARY SCHOOL
IENCE, TEACHING GUIDES.

D 019 242
EORGANIZED SCIENCE CURRICULUM, 1, GRADE
NE SUPPLEMENT.
INNEAPOLIS SPECIAL SCHOOL DISTRICT NO. 1,
INN.
JB DATE 01 OCT 62
DRS PRICE MF-$0.75 HC-$6.80 134P.

ESCRIPTORS— *CURRICULUM, *CURRICULUM
EVELOPMENT,*ELEMENTARY SCHOOL SCIENCE,
RADE 1, *TEACHING GUIDES, ASTRONOMY,
BLIOGRAPHIES, BIOLOGY, EARTH SCIENCE,
STRUCTIONAL MATERIALS, MINNEAPOLIS,
INNESOTA, PHYSICAL SCIENCES, SCIENCE
CTIVITIES, SCIENCE COURSES, SCIENCE
QUIPMENT, SCIENCE MATERIALS.

D 019 244
LDEN, JOHN D.
NGINEERING AND TECHNICIAN ENROLLMENTS
ALL 1967. SUMMARY REPORT.
NGINEERING MANPOWER COMMISSION, NEW
ORK, N.Y.
PUB DATE JAN 68
EDRS PRICE MF-$0.25 HC-$1.55 29P.

DESCRIPTORS— *COLLEGE SCIENCE, *ENGINEERING EDUCATION, *ENROLLMENT TRENDS, *SCIENTIFIC MANPOWER, COMMUNITY COLLEGES, ENGINEERING COUNCIL ON PROFESSIONAL DEVELOPMENT, HIGHER EDUCATION, TECHNICAL EDUCATION, TECHNICAL INSTITUTES.

ED 019 245
PIAGET, JEAN
THE CHILD'S CONCEPTION OF THE WORLD.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COGNITIVE PROCESSES, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *LEARNING THEORIES, *RESEARCH METHODOLOGY, EDUCATIONAL PSYCHOLOGY, SCIENTIFIC CONCEPTS, SECONDARY SCHOOL SCIENCE, STUDENT CHARACTERISTICS.

ED 019 246
PIAGET, JEAN
THE CHILD'S CONCEPTION OF PHYSICAL CAUSALITY
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COGNITIVE PROCESSES, *CONCEPT FORMATION, *EDUCATIONAL PSYCHOLOGY, *ELEMENTARY SCHOOL SCIENCE, *LEARNING THEORIES, LOGIC, PHYSICAL SCIENCES, SCIENTIFIC CONCEPTS, STUDENT CHARACTERISTICS.

ED 019 247
HOOVER, LINN
GEOTIMES, NEWS OF THE EARTH SCIENCES.
AMERICAN GEOLOGICAL INST., WASHINGTON, D.C.
PUB DATE MAR 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM DEVELOPMENT, *EARTH SCIENCE, *EDUCATIONAL NEEDS, *EDUCATIONAL PROGRAMS, CANADA, EARTH SCIENCE CURRICULUM PROJECT, EDUCATIONAL RESEARCH, EDUCATIONAL TRENDS, ENGLAND, FRANCE, GEOLOGY, GERMANY, GRADUATE STUDY, NATIONAL SCIENCE FOUNDATION, NATURAL RESOURCES, OCEANOLOGY, PROFESSIONAL ASSOCIATIONS, SECONDARY SCHOOL SCIENCE, TEACHER EDUCATION, TEACHERS, UNDERGRADUATE STUDY.

ED 019 248
A RESOURCE BOOK OF AEROSPACE ACTIVITIES, K-6.
LINCOLN PUBLIC SCHOOLS, NEBR.
PUB DATE 67
EDRS PRICE MF-$1.00 HC-$13.10 260P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCIENCES, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, ASTRONOMY, BIBLIOGRAPHIES, BIOGRAPHIES, FIELD TRIPS, FILMS, FILMSTRIPS, SCIENCE HISTORY, VOCABULARY.

ED 019 249
CUMMINGS, HOWARD H.
SCIENCE AND THE SOCIAL STUDIES, TWENTY-SEVENTH YEARBOOK OF THE NATIONAL COUNCIL FOR THE SOCIAL STUDIES 1956-57.
NATIONAL COUNCIL FOR THE SOCIAL STUDIES, WASH., D.C.
PUB DATE 57
EDRS PRICE MF-$1.25 HC NOT AVAILABLE FROM EDRS. 287P.

DESCRIPTORS— *CURRICULUM, *EDUCATIONAL OBJECTIVES, *INTERDISCIPLINARY APPROACH, *SOCIOECONOMIC INFLUENCES, *TECHNOLOGICAL ADVANCEMENT, AGRICULTURE, CURRICULUM PLANNING, DEVELOPING NATIONS, ELEMENTARY EDUCATION, MANPOWER NEEDS, MEDICAL RESEARCH, NATIONAL COUNCIL FOR SOCIAL STUDIES, NATIONAL SCIENCE FOUNDATION, PROBLEM SOLVING, SECONDARY EDUCATION, SUMMER INSTITUTES, TEACHER EDUCATION.

ED 019 250
BIBLIOGRAPHY OF SCIENCE COURSES OF STUDY AND TEXTBOOKS GRADES 7-12, 1968.
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
REPORT NUMBER 471-14296
PUB DATE 68
EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS. 50P.

DESCRIPTORS— *BIBLIOGRAPHIES, *CURRICULUM DEVELOPMENT, *SCIENCE COURSE IMPROVEMENT PROJECT, *SECONDARY SCHOOL SCIENCE, BIOLOGICAL SCIENCES, CHEMISTRY, CURRICULUM GUIDES, EARTH SCIENCE, GENERAL SCIENCE, INSTRUCTIONAL MATERIALS, LABORATORY MANUALS, NATIONAL SCIENCE TEACHERS ASSOCIATION, PHYSICAL SCIENCES, PHYSICS, PROGRAMED MATERIALS, REFERENCE MATERIALS, SCIENCE EDUCATION, SCIENCE EXPERIMENTS, TEACHING GUIDES, TEXTBOOKS

ED 019 252
CHAPMAN, FRANK L.
MARINE SCIENCE FILM CATALOG, MOVIES, FILMSTRIPS, AND SLIDES.
CARTERET COUNTY PUBLIC SCHOOLS, BEAU FORT, N.C.
EDRS PRICE MF-$0.50 HC-$3.60 70P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *AUDIOVISUAL CENTERS, *CATALOGS, *FILMS, *FILMSTRIPS, BIOLOGY, COLLEGE SCIENCE, EARTH SCIENCE, ECOLOGY, ELEMENTARY AND SECONDARY EDUCATION ACT TITLE 3, ELEMENTARY SCHOOL SCIENCE, OCEANOLOGY, PHYSICAL SCIENCES, SECONDARY SCHOOL SCIENCE.

ED 019 253 24
ABRAHAMSON, STEPHEN DENSON, JUDSON S.
A DEVELOPMENTAL STUDY OF MEDICAL TRAINING SIMULATORS FOR ANESTHESIOLOGISTS. FINAL REPORT.
UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES
REPORT NUMBER BR-5-0917
PUB DATE 31 JAN 68
CONTRACT OEC-6-10-135
EDRS PRICE MF-$1.00 HC-$10.90 216P.

DESCRIPTORS— *ANESTHESIOLOGY, *COMPUTER ASSISTED INSTRUCTION,*INSTRUCTION,*MEDICAL SCHOOLS, *MEDICAL STUDENTS, CALIFORNIA, GRADUATE STUDY, PROFESSIONAL TRAINING, SIMULATORS, TEACHING MODELS, UNIVERSITY OF SOUTHERN CALIFORNIA.

ED 019 563
RANDALL, RAYMOND L., ED. SIMPSON, DICK W., ED.
SCIENCE ADMINISTRATION, EDUCATION, AND CAREER MOBILITY. SUMMARY OF PROCEEDINGS AND WORKING PAPERS OF THE UNIVERSITY-FEDERAL AGENCY CONFERENCE (NOVEMBER 7-9, 1965).
INDIANA UNIV., BLOOMINGTON, INST. OF PUB. ADMIN.
PUB DATE 01 MAY 66
EDRS PRICE MF-$0.50 HC-$4.95 97P.

DESCRIPTORS— *CAREER PLANNING, *EDUCATIONAL NEEDS, *FEDERAL GOVERNMENT, *GOVERNMENT EMPLOYEES, *SCIENTIFIC PERSONNEL, ADMINISTRATIVE PERSONNEL, COOPERATIVE PLANNING, DEGREES (TITLES), EDUCATIONAL BACKGROUND, EMPLOYMENT EXPERIENCE, ENGINEERS, INDUSTRY, MOBILITY, MOTIVATION, OCCUPATIONAL INFORMATION, PHYSICAL FACILITIES, PROFESSIONAL CONTINUING EDUCATION, RECRUITMENT, RESEARCHERS, SELECTION, STATISTICAL DATA, UNITED STATES CIVIL SERVICE COMMISSION, UNITS OF STUDY (SUBJECT FIELDS), UNIVERSITIES.

ED 019 584
BOGEN, GERALD KEITH
AN APPRAISAL OF THE TRAVELING SCIENCE DEMONSTRATION LECTURE PROGRAM IN OREGON AND ITS EFFECTIVENESS AS AN AGENT FOR INSERVICE EDUCATION.
OREGON UNIV., EUGENE
PUB DATE 63
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INSERVICE TEACHER EDUCATION, *MOBILE EDUCATIONAL SERVICES, *PROGRAM EVALUATION, *SCIENCE COURSE IMPROVEMENT PROJECT, *SCIENCE TEACHERS, DOCTORAL THESES, EDUCATIONAL IMPROVEMENT, MEASUREMENT INSTRUMENTS, OREGON, RESEARCH, STUDENT SCIENCE INTERESTS, TEACHER IMPROVEMENT.

ED 019 679
WALBERG, HERBERT J.
A PORTRAIT OF THE ARTIST AND THE SCIENTIST AS YOUNG MEN--I. BIOGRAPHICAL CHARACTERISTICS OF AWARD WINNERS IN THE TWO CULTURES.
HARVARD UNIV., CAMBRIDGE, MASS.
PUB DATE SEP 67
EDRS PRICE MF-$0.25 HC-$1.65 31P.

DESCRIPTORS— *ARTISTS, *CREATIVE THINKING, *INDIVIDUAL CHARACTERISTICS, *SCIENTISTS, BIOGRAPHICAL INVENTORY, INTELLIGENCE, SOCIAL RELATIONS, VALUES, WORK ATTITUDES.

ED 019 811
RICHARDSON, JOHN S.
ROOMS FOR DEVELOPMENTAL SCIENCE COURSES. SCHOOL FACILITIES FOR SCIENCE INSTRUCTION, 2ND EDITION.
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
PUB DATE 61
EDRS PRICE MF-$0.25 HC-$0.50 8P.

DESCRIPTORS— *FACILITY REQUIREMENTS, *SCIENCE CURRICULUM, *SCIENCE FACILITIES, *SCIENCE INSTRUCTION, *SECONDARY SCHOOL SCIENCE, EQUIPMENT UTILIZATION, LABORATORY EQUIPMENT, PHYSICAL SCIENCES, SCIENCE EQUIPMENT, SCIENCE LABORATORIES.

ED 019 833
A CENTER FOR CONFERENCES AND CONTINUING EDUCATION.
CAUDILL, ROWLETT, SCOTT AND ASSOCIATES, BRYAN, TEX.
UNIVERSITY CITY SCIENCE CENTER, PHILADELPHIA, PA.
PUB DATE OCT 66
EDRS PRICE MF-$0.25 HC-$2.20 42P.

DESCRIPTORS— *CONFERENCES, *CONTINUING EDUCATION CENTERS, *SCIENCE INSTITUTES, ARCHITECTURAL CHARACTER, AUDIOVISUAL COMMUNICATION, FACILITIES, HIGHER EDUCATION, SEMINARS, STRUCTURAL BUILDING SYSTEMS, SYMPOSIA, URBAN RENEWAL.

ED 019 838
HOROWITZ, HAROLD
SAFETY IN THE DESIGN OF SCIENCE LABORATORIES AND BUILDING CODES.
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
BUILDING OFFICIALS CONFERENCE OF AMERICA, INC.
PUB DATE JUN 66
EDRS PRICE MF-$0.25 HC-$0.90 16P.

DESCRIPTORS— *BUILDING DESIGN, *CAMPUS PLANNING, *HEALTH, *SAFETY, *SCIENCE LABORATORIES, BIOLOGY, BUILDING EQUIPMENT, BUILDING MATERIALS, CHEMISTRY, LABORATORY SAFETY, SCIENCE EQUIPMENT, STATE STANDARDS, VENTILATION.

ED 019 873
WHITE, HARVEY E.
PLANNING, CONSTRUCTION, AND EVALUATION OF MEDIA FOR TEACHING HIGH SCHOOL AND JUNIOR COLLEGE SCIENCE VIA TELEVISION FOR USE IN SELF INSTRUCTION. FINAL REPORT.
CALIFORNIA UNIV., BERKELEY
REPORT NUMBER BR-6-2435
PUB DATE 31 MAR 67
CONTRACT OEC-4-6-062435-0646
EDRS PRICE MF-$0.25 HC-$2.45 47P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *AUTOINSTRUCTIONAL AIDS, *SCIENCE EDUCATION, *SCIENCE MATERIALS, *TEACHING MODELS, BIOLOGY INSTRUCTION, CHABOT OBSERVATORY, CHEMISTRY INSTRUCTION, EDUCATIONAL TELEVISION, INSTRUCTIONAL FILMS, MATHEMATICS INSTRUCTION, MICROSCOPES, OAKLAND, PHYSICS INSTRUCTION, TAPE RECORDINGS.

ED 020 053
CHAPMAN, FRANK L.
EIGHTH GRADE UNIT, SEA—RESTLESS GIANT.
CARTERET COUNTY PUBLIC SCHOOLS, BEAUFORT, N.C.
REPORT NUMBER DPSC-67-4274
PUB DATE 68
EDRS PRICE MF-$0.25 HC-$2.30 44P.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS, *OCEANOLOGY, *OUTDOOR EDUCATION, *SCIENCE INSTRUCTION, *UNIT PLAN, BIOLOGY INSTRUCTION, CLASSROOM MATERIALS, ESEA TITLE 3, MARINE BIOLOGY, RESOURCE MATERIALS, RESOURCE UNITS, SCIENCE EDUCATION, SCIENCE MATERIALS, SCIENCE UNITS, WATER RESOURCES.

ED 020 100
WILLIAMS, HARRY KING, CLYDE
BIBLIOGRAPHIC GUIDE FOR ADVANCED PLACEMENT, CHEMISTRY.
NEW YORK STATE EDUCATION DEPT., ALBANY
PUB DATE 65
EDRS PRICE MF-$0.25 HC-$1.25 23P.

DESCRIPTORS— *ADVANCED PLACEMENT, *BIBLIOGRAPHIES, *CHEMISTRY, *INSTRUCTIONAL MATERIALS, *PERIODICALS, *SECONDARY SCHOOL SCIENCE, AUDIOVISUAL AIDS, BOOKLISTS, COURSES, ELEMENTARY AND SECONDARY EDUCATION ACT TITLE 2, NATIONAL DEFENSE EDUCATION ACT TITLE 3, TEXTBOOKS.

ED 020 101
SHEPPARD, MOSES MAURICE
THE RELATION OF VARIOUS TEACHER AND ENVIRONMENTAL FACTORS TO SELECTED LEARNINGS OF NINTH-GRADE SCIENCE PUPILS.
OHIO STATE UNIV., COLUMBUS
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *ENVIRONMENTAL INFLUENCES, *GRADE 9, *SECONDARY SCHOOL SCIENCE, *TEACHER CHARACTERISTICS, CRITICAL THINKING, NORTH CAROLINA, SEQUENTIAL TEST OF EDUCATIONAL PROGRESS (SCIENCE), TEACHER EDUCATION, TEACHER PLACEMENT,TEST ON UNDERSTANDING SCIENCE,WATSON GLASER CRITICAL THINKING APPRAISAL.

ED 020 102
SCIENCE 7, 8, 9, EXPERIMENTAL SYLLABUS BLOCK A, TAKING CARE OF OURSELVES.
NEW YORK STATE EDUCATION DEPT., ALBANY
EDRS PRICE MF-$0.50 HC-$4.20 82P.

DESCRIPTORS— *COURSE CONTENT, *GENERAL SCIENCE, *HEALTH, *HEALTH EDUCATION, *SECONDARY SCHOOL SCIENCE, CURRICULUM GUIDES, GRADE 7, GRADE 8, GRADE 9, NEW YORK, RESOURCE MATERIALS, SCIENCE ACTIVITIES.

ED 020 103
PORTER, T.R.
EARTH-SPACE SCIENCE TEACHING TIPS FROM TST, A COMPILATION OF ARTICLES FROM SEVEN YEARS OF THE SCIENCE TEACHER, 1960—1966.
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *EARTH SCIENCE, *SECONDARY SCHOOL SCIENCE, ASTRONOMY, AUDIOVISUAL AIDS, GEOLOGY, NATIONAL SCIENCE TEACHERS ASSOCIATION, OCEANOLOGY, SCIENCE ACTIVITIES, SCIENCE FACILITIES.

ED 020 105
NIX, JACK P.
SCIENCE FOR GEORGIA SCHOOLS, VOLUME II, INTERMEDIATE MANUAL.
GEORGIA STATE DEPT. OF EDUCATION, ATLANTA
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *CURRICULUM GUIDES, *ELEMENTARY SCHOOL SCIENCE, *TEACHING GUIDES, BIBLIOGRAPHIES, BIOLOGY, EARTH SCIENCE, GEORGIA, GRADE 4, GRADE 5, GRADE 6, PHYSICAL SCIENCES, SCIENCE ACTIVITIES.

ED 020 107
GROWING SEEDS, TEACHER'S GUIDE.
ELEMENTARY SCIENCE STUDY, NEWTON, MASS.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *SCIENCE COURSE IMPROVEMENT PROJECT, *SCIENCE MATERIALS, *TEACHING GUIDES, AUDIOVISUAL AIDS, BOTANY, EDUCATIONAL SERVICES INC., ELEMENTARY SCIENCE STUDY, RESOURCE MATERIALS, SCIENCE UNITS.

ED 020 108
BEHAVIOR OF MEALWORMS, TEACHER'S GUIDE.
ELEMENTARY SCIENCE STUDY, NEWTON, MASS.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BEHAVIOR, *BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, *TEACHING GUIDES, EDUCATIONAL SERVICES INC., ELEMENTARY SCIENCE STUDY, INSTRUCTION, INSTRUCTIONAL MATERIALS, RESOURCE MATERIALS, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE UNITS.

ED 020 109
BERGER, CARL MONTGOMERY, MARSHALL
POSITION AND MOTION, A SCIENCE UNIT FOR THE UPPER ELEMENTARY GRADES, STUDENT MANUAL.
CALIFORNIA UNIV., BERKELEY, SCI.CURRIC. IMPR. STUDY
PUB DATE SEP 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *MOTION, *PHYSICAL SCIENCES, *SCIENCE ACTIVITIES, NATIONAL SCIENCE FOUNDATION, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE UNITS.

ED 020 110
BERGER, CARL MONTGOMERY, MARSHALL
POSITION AND MOTION, A SCIENCE UNIT FOR THE UPPER ELEMENTARY GRADES, TEACHER'S GUIDE.
CALIFORNIA UNIV., BERKELEY, SCI. CURRIC. IMPR. STUDY
PUB DATE SEP 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *MOTION, *PHYSICAL SCIENCES, *SCIENCE UNITS, *TEACHING GUIDES, DISCOVERY LEARNING, NATIONAL SCIENCE FOUNDATION, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE CURRICULUM IMPROVEMENT STUDY, SCIENCE EQUIPMENT.

ED 020 111
BATTERIES AND BULBS, BOOK 3, CIRCUITS II, TEACHER'S GUIDE.
ELEMENTARY SCIENCE STUDY, NEWTON, MASS
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BATTERIES, *CIRCUITS, *ELECTRICITY, *ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCIENCES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, EDUCATIONAL SERVICES INCORPORATED, INSTRUCTION, NATIONAL SCIENCE FOUNDATION, SCIENCE ACTIVITIES.

ED 020 112
DAVIS, JOSEPH AND OTHERS
ENERGY, A SCIENCE UNIT FOR THE UPPER ELEMENTARY GRADES, TEACHER'S GUIDE.
CALIFORNIA UNIV., BERKELEY, SCI. CURRIC. IMPR. STUDY
PUB DATE SEP 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *ENERGY, *INSTRUCTION, *PHYSICAL SCIENCES, *SCIENCE ACTIVITIES, *TEACHING GUIDES, GRADE 5, GRADE 6, NATIONAL SCIENCE FOUNDATION.

ED 020 113
DAVIS, JOSEPH AND OTHERS
ENERGY, A SCIENCE UNIT FOR THE UPPER ELEMENTARY GRADES, STUDENT MANUAL.
CALIFORNIA UNIV., BERKELEY, SCI. CURRIC. IMPR. STUDY
PUB DATE SEP 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *ENERGY, *INSTRUCTIONAL MATERIALS, *LABORATORY MANUALS, *SCIENCE ACTIVITIES, *TEXTBOOKS, GRADE 5, GRADE 6, HEAT, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCES, PHYSICS.

ED 020 116
ROE, ARNOLD
AN ADAPTIVE DECISION STRUCTURE FOR EDUCATIONAL SYSTEMS.
CALIFORNIA UNIV., LOS ANGELES
REPORT NUMBER 63-63
PUB DATE DEC 63
EDRS PRICE MF-$0.75 HC-$9.70 192P.

DESCRIPTORS— *COLLEGE SCIENCE, *COMPUTER ASSISTED INSTRUCTION, *ENGINEERING EDUCATION, *SYSTEMS ANALYSIS, CURRICULUM PLANNING, EDUCATIONAL PLANNING, EDUCATIONAL PROGRAMS, TEACHING MACHINES.

ED 020 117
HARVARD PROJECT PHYSICS PROGRESS REPORT.
HARVARD UNIV., CAMBRIDGE, MASS.
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$3.10 60P.

DESCRIPTORS— *COURSE DESCRIPTIONS, *CURRICULUM, *CURRICULUM DEVELOPMENT, *PHYSICAL SCIENCES, *PHYSICS, *SECONDARY SCHOOL SCIENCE, CARNEGIE CORPORATION, COURSE CONTENT, EDUCATIONAL OBJECTIVES, EVALUATION, FILMS, HARVARD PROJECT PHYSICS, INSTRUCTIONAL MATERIALS, NATIONAL SCIENCE FOUNDATION, NEWSLETTERS, PROGRAMED INSTRUCTION, SCIENCE COURSES, SLOAN FOUNDATION, TEACHER EDUCATION, TESTS.

ED 020 118
MEASUREMENT AND PRECISION, EXPERIMENTAL VERSION.
HARVARD UNIV., CAMBRIDGE, MASS.
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS. *MATHEMATICS, *MEASUREMENT, *PHYSICS, *PROGRAMED INSTRUCTION, *PROGRAMED MATERIALS, *SECONDARY SCHOOL SCIENCE, CARNEGIE CORPORATION, HARVARD PROJECT PHYSICS, NATIONAL SCIENCE FOUNDATION, SLOAN FOUNDATION, TEXTBOOKS, UNITED STATES OFFICE OF EDUCATION.

ED 020 121
BONE PICTURE BOOK, A BOOK FOR STUDENTS USING THE ESS UNIT BONES.
ELEMENTARY SCIENCE STUDY, NEWTON, MASS.
PUB DATE 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ANATOMY, *BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *SCIENCE COURSE IMPROVEMENT PROJECT, ELEMENTARY SCIENCE STUDY EVOLUTION.

ED 020 122
KNAPP, R.H. GOODRICH, H.B.
ORIGINS OF AMERICAN SCIENTISTS.
PUB DATE 52
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *COLLEGE INFLUENCE, *COLLEGE SCIENCE, *GRADUATE STUDY, *HIGHER EDUCATION, *NATURAL SCIENCES, *SCIENTISTS, *UNDERGRADUATE STUDY, CAREER CHOICE, CAREERS, SCIENCES, TEACHER CHARACTERISTICS, TECHNOLOGY.

ED 020 123
ANDERSEN, HANS O.
AN ANALYSIS OF A METHOD FOR IMPROVING PROBLEM-SOLVING SKILLS POSSESSED BY COLLEGE STUDENTS PREPARING TO PURSUE SCIENCE TEACHING AS A PROFESSION.
INDIANA UNIV., BLOOMINGTON
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DOCTORALTHESES, *INSTRUCTION, *PROBLEM SOLVING, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, *TEACHING TECHNIQUES, COLLEGE SCIENCE, INDIANA UNIVERSITY, WATSON GLASER CRITICAL THINKING APPRAISAL.

ED 020 124
BARNES, LEHMAN WILDER, JR.
THE NATURE AND EXTENT OF LABORATORY INSTRUCTION IN SELECTED MODERN HIGH SCHOOL BIOLOGY CLASSES.
TEXAS UNIV., AUSTIN
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *COMPARATIVE ANALYSIS, *INSTRUCTION, *LABORATORIES, *SECONDARY SCHOOL SCIENCE, *TEACHING METHODS, BIOLOGICAL SCIENCES CURRICULUM STUDY, DOCTORAL THESES, EVALUATION, PROCESSES OF SCIENCE TEST, SCIENCE ACTIVITIES, SCIENCE FACILITIES.

ED 020 125
KOCHENDORFER, LEONARD HJALMAR
A COMPARATIVE STUDY OF THE CLASSROOM PRACTICES AND TEACHING RATIONALE OF HIGH SCHOOL BIOLOGY TEACHERS USING DIFFERENT CURRICULUM MATERIALS.
TEXAS UNIV., AUSTIN
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *EVALUATION, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *TEACHER CHARACTERISTICS, BIOLOGICAL SCIENCES CURRICULUM STUDY, BIOLOGY CLASSROOM ACTIVITY CHECKLIST, DOCTORAL THESES, TEACHER EVALUATION.

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ED 020 127
ALDEN, JOHN D.
ENGINEERING MANPOWER BULLETIN NUMBER 9.
ENGINEERING MANPOWER COMMISSION, NEW YORK, N.Y.
PUB DATE DEC 67
EDRS PRICE MF-$0.25 HC-$0.30 4P.

DESCRIPTORS— *EMPLOYMENT STATISTICS, *ENGINEERING, *MANPOWER NEEDS, *MANPOWER UTILIZATION, *PHYSICAL SCIENCES, *SCIENTIFIC MANPOWER, *SCIENTIFIC PERSONNEL, ENGINEERS, OCCUPATIONS, SCIENTIFIC RESEARCH, SCIENTISTS.

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ED 020 128
COMPUTER SCIENCES IN ELECTRICAL ENGINEERING.
COMMISSION ON ENGINEERING EDUC., WASHINGTON, D.C.
PUB DATE SEP 67
EDRS PRICE MF-$0.25 HC-$1.95 37P.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM DEVELOPMENT, *ENGINEERING EDUCATION, *PHYSICAL SCIENCES, ASSOCIATION FOR COMPUTING MACHINERY, BIBLIOGRAPHIES, COMPUTER ORIENTED PROGRAMS, ELECTRONICS, INFORMATION SCIENCE, MATHEMATICAL ASSOCIATION OF AMERICA, PHYSICS, UNDERGRADUATE STUDY.

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ED 020 129
RYAN, ARTHUR J.
TEACHER'S GUIDE TO OUTDOOR EDUCATION.
UNION COUNTY OUTDOOR EDUCATION CENTER
REPORT NUMBER DPSC-66-1161
LINDEN BOARD OF EDUCATION, N.J.
EDRS PRICE MF-$0.50 HC-$5.75 113P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *EDUCATIONAL OBJECTIVES, *EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *OUTDOOR EDUCATION, ART, BIBLIOGRAPHIES, *BIOLOGY, CONSERVATION EDUCATION, EARTH SCIENCE, ELEMENTARY AND SECONDARY EDUCATION ACT (TITLE 3), HEALTH EDUCATION, LANGUAGE ARTS, MATHEMATICS, MUSIC, SOCIAL STUDIES, TEACHING GUIDES, UNITED STATES OFFICE OF HEALTH EDUCATION AND WELFARE.

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ED 020 130
REVIEWS OF DATA ON SCIENCE RESOURCES.
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
REPORT NUMBER NSF-66-27
PUB DATE AUG 66
EDRS PRICE MF-$0.25 HC-$1.10 20P.

DESCRIPTORS— *EMPLOYMENT STATISTICS, *ENGINEERS, *FINANCIAL SUPPORT, *PHYSICAL SCIENCES, *SCIENTIFIC MANPOWER, *SCIENTIFIC RESEARCH, *SCIENTISTS, FEDERAL AID, FEDERAL GOVERNMENT, GRADUATE STUDY, MEDICAL SCHOOLS, NATIONAL SCIENCE FOUNDATION, UNDERGRADUATE STUDY.

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ED 020 131
CAREY, RUSSELL L.
RELATIONSHIP BETWEEN LEVELS OF MATURITY AND LEVELS OF UNDERSTANDING OF SELECTED CONCEPTS OF THE PARTICLE NATURE OF MATTER. TECHNICAL REPORT NO. 36.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE JAN 68
CONTRACT OEC-5-10-154
EDRS PRICE MF-$0.50 HC-$4.20 82P.

DESCRIPTORS— *CHEMISTRY, *COGNITIVE PROCESSES, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCIENCES, *SCIENTIFIC CONCEPTS, BIBLIOGRAPHIES, GENERAL SCIENCE, INSTRUCTION, LEARNING.

ED 020 132
KLINGE, PAUL
CAREERS IN BIOLOGY EDUCATION.
NATIONAL ASSN. OF BIOLOGY TEACHERS
PUB DATE APR 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *CAREER OPPORTUNITIES, *CAREERS, COLLEGE SCIENCE, ELEMENTARY SCHOOL SCIENCE, INTERNATIONAL EDUCATION, MUSEUMS, OUTDOOR EDUCATION, SCIENCE CAREERS, SCIENCE EDUCATION, SECONDARY SCHOOL SCIENCE, TEACHER AIDES.

ED 020 134
HOFFART, ERVIN H.
THE ROLE OF HIGH SCHOOL TEACHERS IN DISSEMINATING NEW ELEMENTARY SCIENCE CURRICULUMS. FINAL REPORT.
EDUCATION DEVELOPMENT CENTER, NEWTON, MASS.
REPORT NUMBER BR-6-1115
PUB DATE MAR 68
GRANT OEG-1-7-061115-0362
EDRS PRICE MF-$0.25 HC-$1.75 33P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *INSERVICE TEACHER EDUCATION, *PHYSICS, *SCIENCE COURSE IMPROVEMENT PROJECT, *SECONDARY SCHOOL SCIENCE, *STUDENT TEACHERS, *TEACHER EDUCATION, *TEACHER WORKSHOPS, ELEMENTARY SCHOOL SCIENCE, ELEMENTARY SCIENCE STUDY, HARVARD PROJECT PHYSICS, INFORMATION DISSEMINATION, INTERMEDIATE SCIENCE CURRICULUM STUDY, INTRODUCTORY PHYSICAL SCIENCE, PHYSICAL SCIENCE STUDY COMMITTEE.

ED 020 135
FOSS, PHILLIP O.
EDUCATION IN NATURAL RESOURCES, PROCEEDINGS AND RELATED PAPERS FROM A SEMINAR SERIES AT COLORADO STATE UNIVERSITY 1963-64.
COLORADO STATE UNIV., FT. COLLINS
PUB DATE 64
EDRS PRICE MF-$0.50 HC-$5.10 100P.

DESCRIPTORS— *CONSERVATION EDUCATION, *CURRICULUM, *EDUCATIONAL PROGRAMS, *HIGHER EDUCATION, *NATURAL RESOURCES, CONFERENCE REPORTS, FEDERAL GOVERNMENT, GRADUATE STUDY, SCIENCES, SOCIAL SCIENCES, STATE FEDERAL SUPPORT, UNDERGRADUATE STUDY.

ED 020 136
GWINN, HERBERT D.
AN ANALYSIS OF STATE ADOPTED TEXTBOOKS RELATIVE TO CONSERVATION EDUCATION INFORMATION.
CALIFORNIA STATE DEPT. OF EDUCATION, SACRAMENTO
PUB DATE JUN 67
EDRS PRICE MF-$0.50 HC-$3.45 67P.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES, *CONSERVATION EDUCATION, *RESOURCE MATERIALS, *TEXTBOOK EVALUATION, *TEXTBOOKS, *BIBLIOGRAPHIES, BIOLOGY, EARTH SCIENCE, ELEMENTARY SCHOOL SCIENCE, GENERAL SCIENCE, INSTRUCTIONAL MATERIALS, PHYSICAL SCIENCES, SECONDARY SCHOOL SCIENCE.

ED 020 137
BONES, TEACHER'S GUIDE.
ELEMENTARY SCIENCE STUDY, NEWTON, MASS.
PUB DATE 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGY, *ELEMENTARY SCHOOL SCIENCE, *TEACHING GUIDES, ANATOMY, EVOLUTION, GRADE 4, NATIONAL SCIENCE FOUNDATION, RESOURCE MATERIALS.

ED 020 138
REPORT TO THE NATIONAL SCIENCE FOUNDATION ON THE SUBSTRUCTURE SEARCH DEMONSTRATION CONDUCTED IN NEW YORK CITY SEPTEMBER 1966.
AMERICAN CHEMICAL SOC., COLUMBUS, OHIO
PUB DATE 66
EDRS PRICE MF-$0.50 HC-$5.05 99P.

DESCRIPTORS— *CHEMISTRY, *COMPUTER ORIENTED PROGRAMS, *INFORMATION CENTERS, *INFORMATION RETRIEVAL, *INFORMATION SCIENCE, *INFORMATION SERVICES, *INFORMATION STORAGE, AMERICAN CHEMICAL SOCIETY, CHEMICAL ABSRACTS SERVICE, NATIONAL SCIENCE FOUNDATION, SUBSTRUCTURE SEARCH SYSTEM.

ED 020 140
SKINNER, B.F.
TEACHING SCIENCE IN HIGH SCHOOL—WHAT IS WRONG. PAPER PRESENTED AT THE AAAS MEETING, DECEMBER 29, 1967, NEW YORK.
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$0.65 11P.

DESCRIPTORS— *DISCOVERY LEARNING, *INSTRUCTION, *LEARNING, *PROGRAMED INSTRUCTION, *REINFORCEMENT, *SCIENCE EDUCATION, *SECONDARY SCHOOL SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, AUDIOVISUAL AIDS, EDUCATIONAL PROBLEMS, SCIENTIFIC MANPOWER.

ED 020 139
BAEZ, ALBERT V.
ACTIVITIES OF THE DIVISION OF SCIENCE TEACHING OF UNESCO. PAPER PRESENTED AT THE AAAS MEETING, DECEMBER 26, 1967, NEW YORK.
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$0.85 15P.

DESCRIPTORS— *CURRICULUM,*EDUCATIONAL PROGRAMS, *IMPROVEMENT PROGRAMS, *INTERNATIONAL EDUCATION, *INTERNATIONAL ORGANIZATIONS, *PROGRAM DESCRIPTIONS, *SCIENCE EDUCATION, AFRICA, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, ASIA, BIOLOGY, CHEMISTRY, COLLEGE SCIENCE, DEVELOPING NATIONS, INSTRUCTIONAL MATERIALS, LATIN AMERICA, MATHEMATICS, PHYSICS, SECONDARY SCHOOL SCIENCE, TEACHER EDUCATION, UNITED NATIONS, UNITED NATIONS DEVELOPMENT PROGRAM.

ED 020 141
UNDERGRADUATE EDUCATION IN RENEWABLE NATURAL RESOURCES, AN ASSESSMENT.
NATIONAL ACADEMY OF SCIENCES—NATIONAL RES. COUNCIL.
REPORT NUMBER PUB—1537
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$1.75 33P.

DESCRIPTORS— *CURRICULUM, *EDUCATIONAL PROGRAMS,*HIGHER EDUCATION, *NATURAL RESOURCES, *PROGRAM DESCRIPTIONS, *UNDERGRADUATE STUDY, ANIMAL SCIENCE, COLLEGE SCIENCE, COMMISSION ON EDUCATION IN AGRICULTURE AND NATURAL RESOURCES, CURRICULUM PLANNING, CURRICULUM PROBLEMS, MATHEMATICS, NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, PLANT SCIENCE, SCIENCE EDUCATION, SOCIAL SCIENCE, SOIL SCIENCE.

ED 020 142
UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES FOR STUDENTS IN AGRICULTURE AND NATURAL RESOURCES. PROCEEDINGS OF A CONFERENCE.
NATIONAL ACADEMY OF SCIENCES—NATIONAL RES. COUNCIL.
REPORT NUMBER PUB 1495
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$4.85 95P.

DESCRIPTORS— *AGRICULTURAL EDUCATION, *AGRICULTURAL TRENDS, *AGRICULTURE, *BIOLOGICAL SCIENCES, *COLLEGE SCIENCE, *CONFERENCE REPORTS, *CURRICULUM, *EDUCATIONAL PROGRAMS, *INSTRUCTION, *UNDERGRADUATE STUDY, ANIMAL SCIENCE, COMMISSION ON EDUCATION IN AGRICULTURE AND NATURAL RESOURCES, EDUCATIONAL CHANGE, MANPOWER NEEDS, NATURAL RESOURCES, PLANT SCIENCE, RURAL AREAS, SCIENCE EDUCATION, SCIENTIFIC RESEARCH, SOCIAL SCIENCE, SOIL SCIENCE.

ED 020 144
STEPS TOWARD SCIENTIFIC LITERACY, A REPORT OF COLLEGE—LEVEL CONFERENCES ON SCIENCE FOR NONSCIENCE MAJORS.
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
PUB DATE 68
EDRS PRICE MF-$0.25 HC-$1.40 26P.

DESCRIPTORS— *BEHAVIORAL OBJECTIVES, *BIOLOGY, *COLLEGE SCIENCE, *CONFERENCE REPORTS, *EDUCATIONAL OBJECTIVES, *EDUCATIONAL PROGRAMS, *GENERAL EDUCATION, *UNDERGRADUATE STUDY, CHEMISTRY, COURSE DESCRIPTIONS, ELEMENTARY SCHOOL SCIENCE, HIGHER EDUCATION, PHYSICAL SCIENCES, SCIENCE EDUCATION, TEACHER EDUCATION.

ED 020 145
BRAINARD, ROBERT W.
SCIENCE POLICY BULLETIN NUMBER 4.
BATTELLE MEMORIAL INST., COLUMBUS, OHIO
PUB DATE APR 68
EDRS PRICE MF-$0.50 HC-$3.50 68P.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES, *BIBLIOGRAPHIES, *FINANCIAL SUPPORT, *INDUSTRY, *NATIONAL PROGRAMS, *NATURAL RESOURCES, *RESOURCE MATERIALS, *SCIENCES, *SCIENTIFIC RESEARCH, TECHNOLOGY, AGRICULTURE, BATTELLE MEMORIAL INSTITUTE, BIOLOGY, CONFERENCE REPORTS, DEVELOPING NATIONS, ENGINEERING, FEDERAL LEGISLATION, GOVERNMENT ROLE, HIGHER EDUCATION, INFORMATION SCIENCE, INTERNATIONAL PROGRAMS, NATIONAL SCIENCE FOUNDATION, NEWSLETTERS, OCEANOLOGY, PHYSICS, SOCIOECONOMIC INFLUENCES, TECHNOLOGICAL ADVANCEMENT.

ED 020 146
BIBLIOGRAPHY OF SCIENCE COURSES OF STUDY AND TEXTBOOKS GRADES K-9 1968.
NATIONAL SCIENCE TEACHERS ASSN., WASHINGTON, D.C.
REPORT NUMBER 471-14298
PUB DATE 68
EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS. 63P.

DESCRIPTORS— *BIBLIOGRAPHIES, *BIOLOGY, *CHEMISTRY, *EARTH SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *GENERAL SCIENCE, *INSTRUCTIONAL MATERIALS, *JUNIOR HIGH SCHOOLS, *PHYSICAL SCIENCES, *RESOURCE MATERIALS, *SECONDARY SCHOOL SCIENCE, *TEXTBOOKS, CONSERVATION EDUCATION, CURRICULUM GUIDES, LABORATORY MANUALS, OUTDOOR EDUCATION, PROGRAMED MATERIALS, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE UNITS, TEACHING GUIDES.

ED 020 148
TAYLOR, CALVIN W. AND OTHERS
BIOGRAPHICAL INFORMATION AND THE PREDICTION OF MULTIPLE CRITERIA OF SUCCESS IN SCIENCE.
NATIONAL AERONAUTICS AND SPACE ADMIN., WASHINGTON, D.C.
REPORT NUMBER NASW-105
PUB DATE FEB 66
EDRS PRICE MF-$0.50 HC-$6.25 123P.

DESCRIPTORS— *COLLEGE STUDENTS, *CREATIVITY, *SCIENTIFIC MANPOWER, *TALENT IDENTIFICATION, CAREERS, CREATIVITY CHECK LIST, CREATIVITY RATING SCALE, MULTIPLE CHOICE TESTS, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, PREDICTION, RESEARCH, RESEARCH METHODOLOGY, SECONDARY SCHOOL STUDENTS.

ED 020 149
RIESER, LEONARD M.
DEVELOPMENT PREPARATORY STUDY OF THE INTRODUCTION OF NEW SCIENCE CURRICULAR MATERIALS AND PROCEDURES INTO THE ELEMENTARY GRADES OF TWO RELATED SCHOOL DISTRICTS — HANOVER, NEW HAMPSHIRE SUPERVISORY UNION NUMBER 22 AND NORWICH, VERMONT SCHOOL DISTRICT.
DARTMOUTH COLL., HANOVER, N.H.
REPORT NUMBER BR-5-8353
PUB DATE APR 68
CONTRACT OEC-6-10-296
EDRS PRICE MF-$0.25 HC-$1.70 32P.

DESCRIPTORS— *CURRICULUM, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *SCIENCE COURSE IMPROVEMENT PROJECT, CURRICULUM EVALUATION, CURRICULUM PLANNING, EDUCATIONAL PROGRAMS, INSERVICE TEACHER EDUCATION.

ED 020 150
CRAIG, GERALD S.
SCIENCE IN THE ELEMENTARY SCHOOLS.
AMERICAN EDUCATIONAL RESEARCH ASSN., WASHINGTON, D.C.
PUB DATE APR 57
EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS. 36P.

DESCRIPTORS— *EDUCATIONAL OBJECTIVES, *ELEMENTARY SCHOOL SCIENCE, *SCIENCE EDUCATION, CONSERVATION, CRITICAL THINKING, CURRICULUM PLANNING, EVALUATION, HEALTH, LEARNING, PROGRAM CONTENT, RESEARCH REVIEWS (PUBLICATIONS), SAFETY, SCIENCE ACTIVITIES, SLOW LEARNERS, TEACHING METHODS.

ED 020 151
BARNARD, J. DARRELL
TEACHING HIGH-SCHOOL SCIENCE.
AMERICAN EDUCATIONAL RESEARCH ASSN., WASHINGTON, D.C.
PUB DATE APR 56
EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS. 36P.

DESCRIPTORS— *EDUCATIONAL OBJECTIVES, *EVALUATION, *INSTRUCTION, AMERICAN EDUCATIONAL RESEARCH ASSOCIATION, AUDIOVISUAL AIDS, CRITICAL THINKING, CURRICULUM PLANNING, INSTRUCTIONAL MATERIALS, LEARNING, NATIONAL EDUCATION ASSOCIATION, PROBLEM SOLVING, RESEARCH REVIEWS (PUBLICATIONS), SCIENCE EDUCATION, SECONDARY SCHOOL SCIENCE, TEACHER EDUCATION, TEACHER QUALIFICATIONS, TEACHING METHODS.

ED 020 152
STAUSS, NYLES G.
MATERIALS USED IN TEACHING AND EVALUATING THE CONCEPTS RELATED TO THE BIOLOGICAL CELL IN GRADES 2—6, PRACTICAL, PAPER NO. 2.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE JAN 68
CONTRACT OEC-5-10-154
EDRS PRICE MF-$0.25 HC-$2.25 43P.

DESCRIPTORS— *BIOLOGY, *COGNITIVE PROCESSES, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *LEARNING, *SCIENTIFIC CONCEPTS, AUDIOVISUAL AIDS, CYTOLOGY, INSTRUCTIONAL MATERIALS MULTIPLE CHOICE TESTS, OBJECTIVE TESTS, TESTS.

ED 020 153
MAKI, DENNIS R.
A FORECASTING MODEL OF MANPOWER REQUIREMENTS IN THE HEALTH OCCUPATIONS.
IOWA STATE UNIV. OF SCIENCE AND TECH., AMES
PUB DATE 67
EDRS PRICE MF-$0.75 HC-$7.80 154P.

DESCRIPTORS— *ECONOMICS, *EMPLOYMENT PROJECTIONS, *HEALTH EDUCATION, *HEALTH OCCUPATIONS, *HEALTH SERVICES, *RESEARCH, MANPOWER NEEDS, MANPOWER UTILIZATION, PARAMEDICAL OCCUPATIONS, PREDICTION, RESEARCH METHODOLOGY, RESEARCH OPPORTUNITIES.

ED 020 335
KANTASEWI, NIPHON
EXPERIMENTS IN THE USE OF PROGRAMED MATERIALS IN TEACHING AN INTRODUCTORY COURSE IN THE BIOLOGICAL SCIENCES AT THE COLLEGE LEVEL.
PUB DATE 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIOLOGICAL SCIENCES, *COLLEGE INSTRUCTION, *COMPARATIVE ANALYSIS, *TEACHING METHODS, COLLEGE STUDENTS, KNOWLEDGE LEVEL, LECTURE, MULTIMEDIA INSTRUCTION, POST TESTING, PRETESTING, PROGRAMED INSTRUCTION, PROGRAMED TEXTS.

ED 020 359
SCIENTIFIC AND TECHNICAL MANPOWER RESOURCES, SUMMARY INFORMATION ON EMPLOYMENT, CHARACTERISTICS, SUPPLY, AND TRAINING.
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
REPORT NUMBER NSF-64-28
PUB DATE 65
EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. 196P.

DESCRIPTORS— *EMPLOYMENT PATTERNS, *ENGINEERS, *LABOR MARKET, *SCIENTISTS, *SUBPROFESSIONALS, EDUCATIONAL BACKGROUND, EMPLOYMENT EXPERIENCE, EMPLOYMENT OPPORTUNITIES, EMPLOYMENT TRENDS, INDIVIDUAL CHARACTERISTICS, MANPOWER UTILIZATION, SALARIES.

ED 020 749
RUSSELL, MARTIN FREEMAN, ROBERT R.
COMPUTER-AIDED INDEXING OF A SCIENTIFIC ABSTRACTS JOURNAL BY THE UDC WITH UNIDEK—A CASE STUDY.
AMERICAN INST. OF PHYSICS, NEW YORK, N.Y.
REPORT NUMBER AIP/UDC-4
PUB DATE 1 APR 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CLASSIFICATION, *COMPUTERS, *INDEXES, *INDEXING, *PERIODICALS, ABSTRACTS, EARTH SCIENCE, INFORMATION RETRIEVAL, UDC, UNIDEK, UNIVERSAL DECIMAL CLASSIFICATION, VOCABULARY.

ED 020 830
YEATER, L.W.
A FIELD EXPERIENCE--A WHY, A HOW.
MARINE SCIENCE PROJECT, BEAUFORT, N.C.
REPORT NUMBER DPSC-67-4274
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$0.75 13P.

DESCRIPTORS— *FIELD TRIPS, *MARINE BIOLOGY, *OCEANOLOGY, *OUTDOOR EDUCATION, *SCIENCE CONSULTANTS, BIOLOGY INSTRUCTIONAL AIDS, INSTRUCTIONAL MATERIALS, LEARNING THEORIES, MOTIVATION TECHNIQUES, RESOURCE MATERIALS, SEQUENTIAL LEARNING, SLOW LEARNERS, STUDENT INTERESTS, TEACHING METHODS, DISCOVERY PROCESSES, EDUCATIONAL PLANNING.

ED 020 882
BEHRINGER, MARJORIE PERRIN
THE DEVELOPMENT OF DIFFERENTIATED CURRICULA FOR ABILITY GROUPED BIOLOGY CLASSES, INCLUDING TEACHER TRAINING AND PROGRAM EVALUATION.
TEXAS UNIV., AUSTIN
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ABILITY GROUPING, *BIOLOGY, *CURRICULUM DEVELOPMENT, *SECONDARY SCHOOL SCIENCE, ACADEMIC ACHIEVEMENT, BIOLOGICAL SCIENCES CURRICULUM STUDY, COOPERATIVE COLLEGE—SCHOOL PROGRAM, DOCTORIAL THESES, EVALUATION, INSERVICE

TEACHER EDUCATION, INSTRUCTION, NATIONAL SCIENCE FOUNDATION, PROCESSES OF SCIENCE TEST, PROGRAM EVALUATION, SAN ANTONIO, TEXAS.

ED 020 883
DAY, MYRTLE V.
A TEACHER'S HANDBOOK OF RESOURCES FOR THE TEACHING OF HEALTH K—6.
NEBRASKA STATE DEPT. OF EDUCATION, LINCOLN
PUB DATE 66
EDRS PRICE MF-$0.50 HC-$5.05 99P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *HEALTH EDUCATION, *RESOURCE UNITS, *TEACHING GUIDES, FIRST AID, INTERMEDIATE GRADES, KINDERGARTEN, MENTAL HEALTH, NEBRASKA, RESOURCE MATERIALS, SAFETY, SCIENCE UNITS.

ED 020 884
SCIENCE EQUIPMENT IN THE ELEMENTARY SCHOOL.
COLORADO UNIV., BOULDER, ELEM. SCI. ADVISORY CENTER
PUB DATE MAR 67
CONTRACT OEC-6-10-169
EDRS PRICE MF-$0.25 HC-$2.10 40P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *SCIENCE EQUIPMENT, *SCIENCE MATERIALS, *TEACHING GUIDES, PHYSICAL SCIENCES, SCIENCE ACTIVITIES.

ED 020 898
COLE, RICHARD C.
SCIENCE INTERPRETIVE PROGRAM—SPERMACETI COVE INTERPRETIVE CENTER.
MIDDLETOWN TOWNSHIP BOARD OF EDUC., HIGHLANDS, N.J.
PUB DATE NOV 67
EDRS PRICE MF-$0.25 HC-$0.65 11P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *OUTDOOR EDUCATION, *PROGRAM DESCRIPTIONS, BIOLOGY, CONSERVATION EDUCATION, ECOLOGY, EDUCATIONAL OBJECTIVES, ELEMENTARY AND SECONDARY EDUCATION ACT, GEOLOGY, GRADE 4, GRADE 5, GRADE 6, MIDDLETOWN, NEW JERSEY, OCEANOLOGY, SCIENCE ACTIVITIES.

ED 020 899
WEICHINGER, THEODORE, JR.
THE DETERMINATION OF SUITABLE LABORATORY EXPERIENCES FOR A PHYSICAL SCIENCE COURSE FOR PROSPECTIVE ELEMENTARY SCHOOL TEACHERS.
COLORADO STATE COLLEGE, GREELEY
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCIENCES, *SCIENCE TEACHERS, *TEACHER EDUCATION, *UNDERGRADUATE STUDY, CHEMISTRY, COLORADO STATE COLLEGE, DOCTORAL THESES, LABORATORY EXPERIMENTS, LABORATORY PROCEDURES, SCIENCE COURSES.

ED 020 900
ILLUSTRATIVE LESSON MATERIALS. A SUPPLEMENT TO SCIENCE FRAMEWORK FOR CALIFORNIA PUBLIC SCHOOLS, PRELIMINARY.
CALIFORNIA STATE DEPT. OF EDUCATION, SACRAMENTO
PUB DATE 68
EDRS PRICE MF-$0.50 HC-$4.10 80P.

DESCRIPTORS— *CURRICULUM GUIDES, *ELEMENTARY SCHOOL SCIENCE, *SCIENCE ACTIVITIES, SECONDARY SCHOOL SCIENCE, BIOLOGY, CALIFORNIA STATE BOARD OF EDUCATION, ELEMENTARY AND SECONDARY EDUCATION ACT, HEALTH EDUCATION, PHYSICAL SCIENCES, RESOURCE MATERIALS, SCIENCE EDUCATION, SCIENTIFIC CONCEPTS, TITLE 5.

ED 020 901
INDUSTRIAL RADIOGRAPHY INSTRUCTOR'S GUIDE.
OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.
REPORT NUMBER OE-84034
ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN.
PUB DATE MAR 68
EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS. 62P.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS, *NUCLEAR PHYSICS, *TEACHING GUIDES, ADULT EDUCATION, CHEMISTRY, EDUCATIONAL PROGRAMS, LABORATORY MANUALS, PHYSICS, TECHNOLOGY, UNITED STATES ATOMIC ENERGY COMMISSION, UNITED STATES OFFICE OF EDUCATION, VOCATIONAL EDUCATION.

ED 020 902
INDUSTRIAL RADIOGRAPHY STUDENT GUIDE AND LABORATORY EXERCISES.
REPORT NUMBER OE-84035
ATOMIC ENERGY COMMISSION, OAK RIDGE, TENN.
PUB DATE MAR 68
EDRS PRICE MF-$0.50 HC-NOT AVAILABLE FROM EDRS. 70P.

DESCRIPTORS— *INSTRUCTIONAL MATERIALS, *LABORATORY MANUALS, *NUCLEAR PHYSICS, *TEACHING GUIDES, ADULT EDUCATION, CHEMISTRY, EDUCATIONAL PROGRAMS, PHYSICS, RADIOISOTOPES, SCIENCE ACTIVITIES, TECHNOLOGY, UNITED STATES ATOMIC ENERGY COMMISSION, UNITED STATES OFFICE OF EDUCATION, VOCATIONAL EDUCATION.

ED 020 903
LERNER, RITA G.
DEVELOPMENT OF MULTI-COORDINATE VOCABULARY, PLASMA PHYSICS.
AMERICAN INST. OF PHYSICS, NEW YORK, N.Y.
PUB DATE MAR 68
EDRS PRICE MF-$0.25 HC-$0.75 13P.

DESCRIPTORS— *COLLEGE SCIENCE, *INFORMATION RETRIEVAL, *INFORMATION SCIENCE, *PHYSICS, *THESAURI, AMERICAN INSTITUTE OF PHYSICS, GRADUATE STUDY, NATIONAL SCIENCE FOUNDATION, SCIENTIFIC RESEARCH, VOCABULARY.

ED 020 904
LERNER, RITA G.
DEVELOPMENT OF A MULTI-COORDINATE VOCABULARY, CHEMICAL PHYSICS.
AMERICAN INST. OF PHYSICS, NEW YORK, N.Y.
PUB DATE MAR 68
EDRS PRICE MF-$0.25 HC-$1.30 24P.

DESCRIPTORS— *CHEMISTRY, *COLLEGE SCIENCE, *INFORMATION RETRIEVAL, *INFORMATION SCIENCE, *THESAURI, AMERICAN INSTITUTE OF PHYSICS, GRADUATE STUDY, NATIONAL SCIENCE FOUNDATION, PHYSICS, SCIENTIFIC RESEARCH, VOCABULARY.

ED 020 905
INDEX OF SELECTED OUTDOOR RECREATION LITERATURE.
DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C.
PUB DATE AUG 67
EDRS PRICE MF-$0.75 HC-NOT AVAILABLE FROM EDRS. 156P.

DESCRIPTORS— *BIBLIOGRAPHIES, *INDEXES (LOCATERS), *NATURAL RESOURCES, *OUTDOOR EDUCATION, ADULT EDUCATION, ANNOTATED BIBLIOGRAPHIES, BIOLOGICAL SCIENCES, BUREAU OF OUTDOOR RECREATION, CAMPING, COLLEGE SCIENCE, CONSERVATION EDUCATION, DEPARTMENT OF THE INTERIOR, ECOLOGY, ELEMENTARY SCHOOL SCIENCE, FEDERAL LEGISLATION, PERIODICALS, PHOTOGRAPHY, RECREATION, RESOURCE MATERIALS, SECONDARY SCHOOL SCIENCE.

ED 020 906
TRIEZENBERG, HENRY J.
TESTING FOR CONCEPTS OF ECOLOGICAL SYSTEMS.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE JAN 68
CONTRACT OEC-5-10-154
EDRS PRICE MF-$0.25 HC-$1.40 26P.

DESCRIPTORS— *COGNITIVE TESTS, *ECOLOGY, *ELEMENTARY SCHOOL SCIENCE, *SECONDARY SCHOOL SCIENCE, *TESTS, BIOLOGICAL SCIENCES, EVALUATION, MULTIPLE CHOICE TESTS, SCIENCE CONCEPT LEARNING PROJECT, SCIENCE TESTS.

ED 020 907
HELGESON, STANLEY L.
LESSONS PLANS AND TESTS OF KNOWLEDGE, COMPREHENSION, AND APPLICATION FOR INSTRUCTION IN CONCEPTS OF FORCE, GRADES 2-6.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE MAR 68
EDRS PRICE MF-$0.25 HC-$2.35 45P.

DESCRIPTORS— *ELEMENTARY SCHOOL SCIENCE, *FORCE, *INSTRUCTION, *PHYSICS, *TEACHING GUIDES, ACADEMIC ACHIEVEMENT, COGNITIVE PROCESSES, CONCEPT FORMATION, EVALUATION, LEARNING, PHYSICAL SCIENCES, SCIENCE CONCEPT LEARNING PROJECT, TESTS.

ED 020 908
VOELKER, ALAN M.
THE RELATIVE EFFECTIVENESS OF TWO METHODS OF INSTRUCTION IN TEACHING THE CLASSIFICATIONAL CONCEPTS OF PHYSICAL AND CHEMICAL CHANGE TO ELEMENTARY SCHOOL CHILDREN.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE FEB 68
CONTRACT OEC-5-10-154
EDRS PRICE MF-$0.25 HC-$2.35 45P.

DESCRIPTORS— *CHEMISTRY, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, CHEMISTRY, COGNITIVE DEVELOPMENT, CONCEPT TEACHING, SCIENCE CONCEPT LEARNING PROJECT, TEACHING TECHNIQUES.

ED 020 909
TRIEZENBERG, HENRY J.
THE USE OF AN ADVANCE ORGANIZER IN TEACHING SELECTED CONCEPTS OF ECOLOGICAL SYSTEMS.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE FEB 68
CONTRACT OEC-5-10-154
EDRS PRICE MF-$0.25 HC-$2.65 51P.

DESCRIPTORS— *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, ACADEMIC ACHIEVEMENT, BIOLOGICAL SCIENCES, COGNITIVE DEVELOPMENT, COMPARATIVE ANALYSIS, ECOLOGY, GRADE 7, GRADE 9, RETENTION, SCIENCE CONCEPT LEARNING PROJECT, TEACHING TECHNIQUES, TELEVISED INSTRUCTION.

ED 020 910
HELGESON, STANLEY L.
THE RELATIONSHIPS BETWEEN CONCEPTS OF FORCE ATTAINED AND MATURITY AS INDICATED BY GRADE LEVELS.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE MAR 68
CONTRACT OEC-5-10-154
EDRS PRICE MF-$0.25 HC-$2.85 55P.

DESCRIPTORS— *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, *PHYSICAL SCIENCES, ACADEMIC ACHIEVEMENT, COGNITIVE PROCESSES, FORCE, PHYSICS, SCIENCE CONCEPT LEARNING PROJECT, SCIENTIFIC CONCEPTS.

ED 020 912
STAUSS, NYLES G.
AN INVESTIGATION INTO THE RELATIONSHIP BETWEEN CONCEPT ATTAINMENT AND LEVEL OF MATURITY.
WISCONSIN UNIV., MADISON
REPORT NUMBER BR-5-0216
PUB DATE FEB 68
CONTRACT OEC-5-10-154
EDRS PRICE MF-$0.50 HC-$3.95 77P.

DESCRIPTORS— *CELL THEORY, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, ACADEMIC ACHIEVEMENT, BIOLOGICAL SCIENCES, COGNITIVE TESTS, CURRICULUM PLANNING, SCIENCE CONCEPT LEARNING PROJECT, SCIENTIFIC CONCEPTS.

ED 020 913
HALL, THOMAS S.
SOURCE MATERIALS FOR GENERAL AND HUMAN BIOLOGY. FINAL REPORT.
WASHINGTON UNIV., ST LOUIS, MO., DEPT. OF BIOLOGY
REPORT NUMBER BR-5-1189
PUB DATE 27 MAY 68
CONTRACT OEC-6-10-242
EDRS PRICE MF-$0.50 HC-$5.00 98P.

DESCRIPTORS— *BIOLOGICAL SCIENCES, *COLLEGE SCIENCE, *GENERAL EDUCATION, *INSTRUCTIONAL MATERIALS, CASE STUDIES (EDUCATION), CYTOLOGY, EVOLUTION, HEREDITY, INSTRUCTION, PHYSIOLOGY, TEACHING METHODS.

ED 020 914
BRAINARD, ROBERT W.
SCIENCE POLICY BULLETIN NUMBER 5.
BATTELLE MEMORIAL INST., COLUMBUS, OHIO
PUB DATE JUN 68
EDRS PRICE MF-$0.25 HC-$2.50 48P.

DESCRIPTORS— *BIBLIOGRAPHIES, *RESEARCH, *SCIENCES, *TECHNOLOGY, ANNOTATED BIBLIOGRAPHIES, CONFERENCE REPORTS, ENGINEERING, FEDERAL AID, FEDERAL GOVERNMENT, FINANCIAL SUPPORT, FOREIGN COUNTRIES, HIGHER EDUCATION, INDUSTRY, SCIENTIFIC MANPOWER, SOCIAL SCIENCES, SOCIOECONOMIC INFLUENCES.

ED 020 915
MARQUARDT, D.N.
SELECTED PAPERS FROM REGIONAL CONFERENCES 1966-67.
ADVISORY COUNCIL ON COLL. CHEMISTRY
REPORT NUMBER AC3-PUB-NO-35
PUB DATE MAY 68
EDRS PRICE MF-$0.50 HC-$4.20 82P.

DESCRIPTORS— *CHEMISTRY, *COLLEGE SCIENCE, *COMMUNITY COLLEGES, *CURRICULUM DEVELOPMENT, *UNDERGRADUATE STUDY, ADVISORY COUNCIL ON COLLEGE CHEMISTRY, CONFERENCES, INSTRUCTION, LABORATORY SAFETY, ORGANIC CHEMISTRY, SCIENCE ACTIVITIES TEACHING TECHNIQUES.

ED 020 916
SCIENCE EDUCATION INFORMATION ANALYSIS CENTER NEWSLETTER.
ERIC INFORM.ANAL.CEN.FOR SCI.EDUC., COLUMBUS, OHIO
PUB DATE APR 68
EDRS PRICE MF-$0.25 HC-$0.85 15P.

DESCRIPTORS— *CONSERVATION EDUCATION *DIRECTORIES, *ELEMENTARY SCHOOL SCIENCE, *OUTDOOR EDUCATION, *SECONDARY SCHOOL SCIENCE, ART, BIOLOGICAL SCIENCES CURRICULUM DEVELOPMENT, EARTH SCIENCES, ECOLOGY, EDUCATIONAL PROGRAMS, HANDICAPPED STUDENTS, LANGUAGE ARTS, MATHEMATICS EDUCATION, MUSIC, NATURAL RESOURCES, NATURE CENTERS, NEWSLETTERS, OCEANOLOGY, PHYSICAL EDUCATION, PHYSICAL SCIENCES, PROGRAM DESCRIPTIONS, SCIENCE EDUCATION INFORMATION ANALYSIS CENTER, SOCIAL STUDIES.

ED 020 917
FOWLER, JOHN M.
PRODUCTION AND USE OF SINGLE CONCEPT FILMS IN PHYSICS TEACHING.
PUB DATE SEP 67
EDRS PRICE MF-$0.50 HC-$5.90 116P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *COLLEGE SCIENCE, *INSTRUCTIONAL FILMS, *INSTRUCTIONAL MATERIALS, *PHYSICS, BIBLIOGRAPHIES, COMMISSION ON COLLEGE PHYSICS, CONFERENCES, FILMS, PHOTOGRAPHY, PROJECTION EQUIPMENT, SCIENCE EQUIPMENT, SINGLE CONCEPT FILMS.

ED 020 918
GOLDBERG, STANLEY
THE EFFECTS OF NATIONAL SCIENTIFIC STYLE ON THE UNDERSTANDING OF SCIENTIFIC INNOVATION—SPECIAL RELATIVITY, A CASE HISTORY. FINAL REPORT.
ANTIOCH COLL., YELLOW SPRINGS, OHIO
REPORT NUMBER BR-5-8280
PUB DATE 19 JUN 68
GRANT OEG-4-10-222
EDRS PRICE MF-$0.75 HC-$7.50 148P.

DESCRIPTORS— *CHANGE AGENTS, *PHYSICS, *RELATIVITY, *SCIENTIFIC ENTERPRISE, EDUCATIONAL HISTORY, EINSTEIN, ENGLAND, FRANCE, GERMANY, INNOVATION, SCIENCE EDUCATION, SCIENCE EDUCATION HISTORY, SCIENCE HISTORY, UNITED STATES.

ED 020 952
LISONBEE, LORENZO
TEACHING SCIENCE TO THE DISADVANTAGED PUPIL.
PUB DATE OCT 63
EDRS PRICE MF-$0.25 HC-$0.30 4P.

DESCRIPTORS— *BIOLOGY, *DISADVANTAGED YOUTH, *SCIENCE INSTRUCTION, BIOLOGICAL SCIENCES CURRICULUM STUDY, DISCOVERY LEARNING, EDUCATIONAL QUALITY, HIGH SCHOOL STUDENTS, SCIENCE COURSE IMPROVEMENT PROJECT, SCIENCE CURRICULUM, SCIENCE FACILITIES, SCIENTIFIC CONCEPTS, SOCIOECONOMIC BACKGROUND, TEACHER ATTITUDES, URBAN SCHOOLS.

# II. MATHEMATICS EDUCATION

ED 012 397
HENKELMAN, JAMES AND OTHERS
MARYLAND ELEMENTARY MATHEMATICS INSERVICE PROGRAM, FINAL REPORT OF STUDY—DEMONSTRATION PHASE.
MARYLAND UNIV., COLLEGE PARK, BUR. OF EDUC. RES.
REPORT NUMBER BR-6-1737
PUB DATE 01 MAR 67
EDRS PRICE MF-$0.75 HC-$7.60 152P.

DESCRIPTORS— *BEHAVIOR DEVELOPMENT, *INSERVICE TEACHER EDUCATION, *INSTRUCTIONAL MATERIALS, *MATERIAL DEVELOPMENT, *MATHEMATICS INSTRUCTION, ALGORITHMS, COLLEGE PARK, MATHEMATICAL ENRICHMENT, MATHEMATICS MATERIALS, PILOT PROJECTS, SUMMER WORKSHOPS.

ED 012 633
BRUNS, CARL AND OTHERS
QUIPS AND TIPS ON CUISENAIRE.
PUB DATE JUN 63
EDRS PRICE MF-$0.25 HC-$2.40 48P.

DESCRIPTORS— *ELEMENTARY GRADES, *FUNDAMENTAL CONCEPTS, *MATHEMATICAL CONCEPTS, *MATHEMATICS MATERIALS, CUISENAIRE MATERIALS, MATHEMATICAL ENRICHMENT, MATHEMATICS CURRICULUM, NUMBER CONCEPTS, TEACHING GUIDES, UNIVERSITY CITY.

ED 013 130
PITTMAN, KENNETH C. AND OTHERS
MIGRANT NON-CURRICULAR SUPPORTIVE EDUCATION PROGRAM, PILOT PROJECT NUMBER CG 8561 A/1. EVALUATION REPORT.
COLLIER COUNTY BOARD OF PUBLIC INST., NAPLES, FLA.
PUB DATE 01 JUL 66
EDRS PRICE MF-$0.25 HC-$1.90 36P.

DESCRIPTORS— *COMPENSATORY EDUCATION PROGRAMS, *FEDERAL PROGRAMS, *LANGUAGE ARTS, *MATHEMATICS, *MIGRANT YOUTH, COLLIER COUNTY FLORIDA, DISADVANTAGED YOUTH, EVALUATION, MIGRANT EDUCATION, OEO, TITLE IIIB.

ED 013 227
SUYDAM, MARILYN N.
COMPILATION OF RESEARCH RESULTS IN ELEMENTARY ARITHMETIC SINCE 1900. FINAL REPORT.
PENNSYLVANIA STATE UNIV., UNIVERSITY PARK.
PUB DATE AUG 67
EDRS PRICE MF-$0.50 HC-$3.80 74P.

DESCRIPTORS— *EDUCATIONAL RESEARCH, *ELEMENTARY SCHOOL MATHEMATICS, *RESEARCH, BIBLIOGRAPHIES, CONCEPT FORMATION, DOCTORAL THESES, EDUCATIONAL OBJECTIVES, EVALUATION, INSTRUCTION, LEARNING THEORIES, MATHEMATICS, PENNSYLVANIA, PENNSYLVANIA STATE UNIVERSITY, UNITED STATES OFFICE OF EDUCATION, UNIVERSITY PARK.

ED 013 377
STOLUROW, LAWRENCE M. BEBERMAN, MAX
COMPARATIVE STUDIES OF PRINCIPLES FOR PROGRAMMING MATHEMATICS IN AUTOMATED INSTRUCTION. FINAL REPORT.
ILLINOIS UNIV., URBANA, BUR. OF EDUC. RESEARCH
REPORT NUMBER NDEA-VIIA-806
PUB DATE JUL 64
EDRS PRICE MF-$0.25 HC-$2.55 49P.

DESCRIPTORS— *EDUCATIONAL RESEARCH, *LITERATURE REVIEWS, *MATHEMATICS INSTRUCTION, *PROGRAMED INSTRUCTION, *RESEARCH PROJECTS, COMPUTER ASSISTED INSTRUCTION, INSTRUCTIONAL TECHNOLOGY, RESEARCH METHODOLOGY, .TEACHING TECHNIQUES.

ED 013 514
ARITHMETIC ENRICHMENT IDEAS FOR GRADES 1, 2 AND 3.
OHIO STATE DEPT. OF EDUCATION, COLUMBUS
CINCINNATI PUBLIC SCHOOLS, OHIO
PUB DATE 64
EDRS PRICE MF-$0.25 HC-$1.50 28P.

DESCRIPTORS— *ARITHMETIC, *ENRICHMENT ACTIVITIES, *GIFTED, COLUMBUS, GRADE 1, GRADE 2, GRADE 3, PRIMARY GRADES, SPECIAL EDUCATION.

ED 013 937
DORNFIELD, BLANCHE E.
COMMERCIAL FOODS, MATHEMATICS-I.
NEW JERSEY STATE DEPT. OF EDUCATION, TRENTON
RUTGERS, THE STATE UNIV., NEW BRUNSWICK, N.J.
PUB DATE JUL 66
EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS. 141P.

DESCRIPTORS— *BASIC SKILLS, *FOOD SERVICE INDUSTRY, *MATHEMATICAL APPLICATIONS, *MATHEMATICS INSTRUCTION, *TRADE AND INDUSTRIAL EDUCATION, HIGH SCHOOLS, STUDY GUIDES.

ED 013 939
COLICCHIO, ANTOINETTE J.
NEEDLE TRADES, MATHEMATICS—I.
NEW JERSEY STATE DEPT. OF EDUCATION, TRENTON
RUTGERS, THE STATE UNIV., NEW BRUNSWICK, N.J.
PUB DATE JUL 60
EDRS PRICE MF-$1.00 HC NOT AVAILABLE FROM EDRS. 245P.

DESCRIPTORS— *NEEDLE TRADES, *PRACTICAL MATHEMATICS, *STUDY GUIDES, *TRADE AND INDUSTRIAL EDUCATION, HIGH SCHOOLS.

ED 014 190 40
HIGGINS, CONWELL RUSCH, REUBEN R.
DEVELOPMENT AND EVALUATION OF AUTO-INSTRUCTIONAL PROGRAMS IN ARITHMETIC FOR THE EDUCABLE MENTALLY HANDICAPPED. FINAL REPORT.
ALBANY PUBLIC SCHOOLS, N.Y.
REPORT NUMBER HCY-2514
REPORT NUMBER BR-5-0413
PUB DATE AUG 67
GRANT OEG-32-42-6165-5005
EDRS PRICE MF-$0.75 HC-$8.35 165P.

DESCRIPTORS— *ARITHMETIC, *AUTOINSTRUCTIONAL PROGRAMS, *EDUCABLE MENTALLY HANDICAPPED, *PROGRAMED INSTRUCTION, *TEACHING MACHINES, AUDIO VISUAL MANIPULATIVE DESK, AUDIOVISUAL PROGRAMS, CHILDREN, EXPERIMENTAL PROGRAMS, PROGRAM DEVELOPMENT, PROGRAM EVALUATION, PROGRAMED MATERIALS, PROGRAMED UNITS, SPECIAL EDUCATION, TRAINABLE MENTALLY HANDICAPPED.

ED 014 215
SUPPES, PATRICK AND OTHERS
ARITHMETIC DRILLS AND REVIEW ON A COMPUTER-BASED TELETYPE.
STANFORD UNIV., CALIF., INST. MATH STUDIES SOC. SCI.
REPORT NUMBER PSYCHOL.-SER-TR-83
PUB DATE 5 NOV 65
EDRS PRICE MF-$0.25 HC-$0.95 17P.

DESCRIPTORS— *ARITHMETIC, *FEEDBACK, *PROBLEM SETS, *TEACHING MACHINES, *TESTS OF SIGNIFICANCE, CALIFORNIA, CUPERTINO SCHOOL DISTRICT, GRANT SCHOOL.

ED 014 454 24
EASTERDAY, KENNETH E.
STUDY OF MATHEMATICS TEACHERS IN ALABAMA, FINAL REPORT.
AUBURN UNIV., ALA.
REPORT NUMBER BR-6-8594
PUB DATE 31 MAY 67
CONTRACT OEC-2-7-08594-0458
EDRS PRICE MF-$0.50 HC-$5.00 98P.

DESCRIPTORS— *MATHEMATICS TEACHERS, ALABAMA, CLASS SIZE, DEGREES (TITLES), ELEMENTARY SCHOOL TEACHERS, MATHEMATICS CURRICULUM, MATHEMATICS EDUCATION, QUESTIONNAIRES, SEX DIFFERENCES, STATE ACTION, STATE STANDARDS, TABLES (DATA), TEACHER ATTITUDES, TEACHER CERTIFICATION, TEACHER EXPERIENCE, TEACHER PROGRAMS, TEACHER SALARIES.

ED 014 503
MONTAGUE, DAVID O.
ARITHMETIC CONCEPTS OF KINDERGARTEN CHILDREN IN CONTRASTING SOCIOECONOMIC AREAS.
PUB DATE APR 64
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ARITHMETIC, *CONCEPT FORMATION, *KINDERGARTEN CHILDREN, *SOCIOECONOMIC BACKGROUND, ARITHMETIC CONCEPTS INVENTORY K AND 1ST, RESEARCH.

ED 014 506
ATKINSON, RICHARD C. SUPPES, PATRICK
PROJECT FOR AN AUTOMATED PRIMARY-GRADE READING AND ARITHMETIC CURRICULUM FOR CULTURALLY-DEPRIVED CHILDREN. PROGRESS REPORT NUMBER 5, JULY 1 TO DECEMBER 31, 1966.
STANFORD UNIV., CALIF., INST. MATH.-STUDIES SOC.SCI.
REPORT NUMBER BR-5-0684-PR-5
PUB DATE JAN 67
CONTRACT OEC-5-10-050
EDRS PRICE MF-$0.25 HC-$1.10 20P.

DESCRIPTORS— *ARITHMETIC CURRICULUM, *COMPUTER ASSISTED INSTRUCTION, *DISADVANTAGED YOUTH, *PROGRAMED IN-

STRUCTION, *READING PROGRAMS, BRENTWOOD SCHOOL, CALIFORNIA, COMPUTERS, IBM 1800/1500 CAI SYSTEM, PRIMARY GRADES, PROGRAM DEVELOPMENT, PROGRAMED MATERIALS, STANFORD, TEACHING PROCEDURES.

ED 014 849
BARTNICK, LAWRENCE P.
DESIGNING THE MATHEMATICS CLASSROOM.
NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS INC.
PUB DATE 57
EDRS PRICE MF-$0.25 HC-$2.30 44P.

DESCRIPTORS— *CLASSROOM DESIGN, *EDUCATIONAL EQUIPMENT, *MATHEMATICS MATERIALS, CLASSROOM FURNITURE, ELEMENTARY SCHOOL MATHEMATICS, EQUIPMENT, FURNITURE, FURNITURE ARRANGEMENT, LIGHTING, MATHEMATICS, PHYSICAL FACILITIES, SCHOOL DESIGN, SCHOOL PLANNING, SECONDARY SCHOOL MATHEMATICS.

ED 014 886
TELEVISION IN MATHEMATICS EDUCATION. NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION NEWS SUPPLEMENT NUMBER FIVE.
NATIONAL CENTER FOR SCHOOL AND COLL. TELEVISION
EDRS PRICE MF-$0.25 HC-$0.60 10P.

DESCRIPTORS— *CONFERENCES, *ELEMENTARY SCHOOLS, *INSTRUCTIONAL TELEVISION, *MATHEMATICS EDUCATION, *SECONDARY SCHOOLS, INSERVICE TEACHER EDUCATION.

ED 015 015
PAYNE, JOSEPH N.
THE FORMATION OF ADDITION AND SUBTRACTION CONCEPTS BY PUPILS IN GRADES ONE AND TWO. FINAL REPORT.
MICHIGAN UNIV., ANN ARBOR
REPORT NUMBER CRP-S-244
REPORT NUMBER BR-5-8031
PUB DATE 1 MAY 67
GRANT OEG-5-10-346
EDRS PRICE MF-$0.25 HC-$1.30 24P.

DESCRIPTORS— *ACHIEVEMENT, *MATHEMATICAL CONCEPTS, *METHODS RESEARCH, *STUDENT ATTITUDES, *SYMBOLIC LEARNING, ARITHMETIC, CONCEPT FORMATION, GRADE 1, GRADE 2, LONGITUDINAL STUDIES, NUMBER CONCEPTS, STATISTICAL ANALYSIS, SUBTRACTION, YPSILANTI PUBLIC SCHOOLS.

ED 015 129
HUSEN, TORSTEN AND OTHERS
INTERNATIONAL STUDY OF ACHIEVEMENT IN MATHEMATICS, A COMPARISON OF TWELVE COUNTRIES, VOLUME I.
INTERNATIONAL PROJ. FOR THE EVAL. OF EDUC. ACHIEV.
REPORT NUMBER BR-5-0676-VOL.-1
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *COMPARATIVE EDUCATION, *EVALUATION, *MATHEMATICS EDUCATION, AUSTRALIA, BELGIUM, COMPARATIVE TESTING, CULTURAL DIFFERENCES, CULTURE, CURRICULUM, EDUCATIONAL OBJECTIVES, EDUCATIONAL PHILOSOPHY, ENGLAND, FINLAND, FRANCE, INSTRUCTION, INTERNATIONAL ORGANIZATIONS, ISRAEL, RESEARCH METHODOLOGY, SECONDARY EDUCATION, SOCIOECONOMIC INFLUENCES, STUDENT CHARACTERISTICS, TEACHER CHARACTERISTICS, TEACHER EDUCATION, TESTING, UNESCO.

ED 015 130
HUSEN, TORSTEN AND OTHERS
INTERNATIONAL STUDY OF ACHIEVEMENT IN MATHEMATICS, A COMPARISON OF TWELVE COUNTRIES, VOLUME II.
INTERNATIONAL PROJ. FOR THE EVAL. OF EDUC. ACHIEV.
REPORT NUMBER BR-5-0676-VOL-2
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *COMPARATIVE EDUCATION, *EVALUATION, *MATHEMATICS EDUCATION, *SECONDARY EDUCATION, *STATISTICAL DATA, *TESTING, ATTITUDES, AUSTRALIA, BELGIUM, BIBLIOGRAPHIES, COMPARATIVE TESTING, CULTURAL DIFFERENCES, CULTURE, CURRICULUM, EDUCATIONAL OBJECTIVES, EDUCATIONAL PHILOSOPHY, ENGLAND, FEDERAL REPUBLIC OF GERMANY, INSTRUCTION, INTERNATIONAL ORGANIZATION, SCHOOL ORGANIZATION, STUDENT CHARACTERISTICS.

ED 015 140
GOALS FOR SCHOOL MATHEMATICS, THE REPORT OF THE CONFERENCE ON SCHOOL MATHEMATICS (CAMBRIDGE, MASSACHUSETTS, 1963).
EDUCATIONAL SERVICES INC., NEWTON, MASS.
PUB DATE 63
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONFERENCE REPORTS, *CURRICULUM DEVELOPMENT, *EDUCATIONAL OBJECTIVES, *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS EDUCATION, *MODERN MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS,ALGEBRA,CALCULUS,CAMBRIDGE CONFERENCE ON SCHOOL MATHEMATICS, CONFERENCES, COURSE CONTENT, EDUCATIONAL SERVICES INCORPORATED, GEOMETRY, INSTRUCTION,MATHEMATICS,NATIONALSCIENCE FOUNDATION, TEACHER EDUCATION, TEACHING PROCEDURES.

ED 015 723
FRESHMAN MATHEMATICS COURSE DESCRIPTIONS, TEXAS COLLEGES AND UNIVERSITIES.
TEXAS EDUCATION AGENCY, AUSTIN
REPORT NUMBER BULL-662
PUB DATE 66
EDRS PRICE MF-$0.75 HC-$9.25 183P.

DESCRIPTORS— *COLLEGE MATHEMATICS, *COURSE DESCRIPTIONS, *HIGHER EDUCATION, *JUNIOR COLLEGES, ADMISSION CRITERIA, COURSE CONTENT, MATHEMATICS CURRICULUM, MATHEMATICS EDUCATION, PROGRAM DESCRIPTIONS, TEXAS

ED 015 768
CRESWELL, DORIS E. BERGER, EMANUEL
THE DEVELOPMENT OF AN INFORMATION SYSTEM FOR ELEMENTARY SCHOOL MATHEMATICS CURRICULUM MATERIALS—A FEASIBILITY STUDY. FINAL REPORT.
PENNSYLVANIA STATE DEPT. OF PUBLIC INSTRUCTION
REPORT NUMBER BR-6-8152
PUB DATE NOV 67
CONTRACT OEC-6-10-352
EDRS PRICE MF-$0.50 HC-$3.20 62P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL MATHEMATICS, *INFORMATION RETRIEVAL, *INFORMATION SYSTEMS, *MATHEMATICS MATERIALS, COMPUTERS, FEASIBILITY STUDIES, HARRISBURG, INFORMATION CENTERS, INFORMATION SERVICES, INFORMATION STORAGE, MICROFILM, PENNSYLVANIA RETRIEVAL OF INFORMATION FOR MATHEMATICS EDUCATION SYSTEM (PRIMES), SCHOOL DISTRICTS, SYSTEMS DEVELOPMENT, TEXTBOOK SELECTION.

ED 015 791
DEAL, THERRY N.
EFFECTS OF A STRUCTURED PROGRAM OF PRESCHOOL MATHEMATICS ON COGNITIVE BEHAVIOR.
GEORGIA UNIV., ATHENS, RES. AND DEV. CTR. IN EDUC.
REPORT NUMBER BR-5-0250-RR
CONTRACT OEC-6-10-061
EDRS PRICE MF-$0.50 HC-$3.55 69P.

DESCRIPTORS— *EXPERIMENTAL PROGRAMS, *MATHEMATICS INSTRUCTION, *PRESCHOOL CHILDREN, *PRESCHOOL LEARNING, *TRAINING TECHNIQUES, AGE DIFFERENCES, ANALYSIS OF VARIANCE, CONCEPT TEACHING, LEARNING READINESS, NUMBER CONCEPTS, PIAGET, TASK PERFORMANCE, TRANSFER OF TRAINING.

ED 015 872
FEHR, HOWARD F.
SECONDARY SCHOOL MATHEMATICS CURRICULUM IMPROVEMENT STUDY. FINAL REPORT.
COLUMBIA UNIV., NEW YORK, TEACHERS COLLEGE
REPORT NUMBER BR-5-0647
PUB DATE OCT 67
CONTRACT OEC-6-10-097
EDRS PRICE MF-$0.25 HC-$2.70 52P.

DESCRIPTORS-- *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, COURSE CONTENT, CURRICULUM GUIDES, EVALUATION, GRADE 7, OBJECTIVES, SECONDARY SCHOOL MATHEMATICS CURRICULUM IMPROVEMENT STUDY (SSMCIS), SEQUENTIAL TEST OF EDUCATIONAL PROGRESS (STEP), TEACHER EDUCATION.

ED 015 373
RYAN, JAMES J.
EFFECTS OF EXPERIMENTAL PROGRAMS IN MATHEMATICS ON RELEVANT ATTITUDES AND INTERESTS OF NINTH GRADE PUPILS AS MEASURED BY QUESTIONNAIRE INDICES, INTERIM REPORT.
MINNESOTA STATE DEPT. OF EDUCATION, ST. PAUL
REPORT NUMBER BR-5-1028-IR
PUB DATE JUL 67
CONTRACT OEC-5-10-051
EDRS PRICE MF-$0.50 HC-$3.80 74P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *EVALUATION, *INSTRUCTION,*SECONDARY SCHOOL MATHEMATICS,*STUDENT CHARACTERISTICS, AIKEN MATHEMATICS INTEREST SCALE, ALGEBRA, ATTITUDES, BALL STATE, DUTTON MATHEMATICS ATTITUDE SCALE, GRADE 9, INTERESTS, LEARNING DIFFICULTIES, MATHEMATICS, SCHOOL MATHEMATICS STUDY GROUP, TEXTBOOKS THE UNIVERSITY OF ILLINOIS COMMITTEE ON SCHOOL MATHEMATICS.

ED 015 874 24
RYAN, JAMES J.
EFFECTS OF EXPERIMENTAL PROGRAMS IN NINTH GRADE ALGEBRA ON PUPILS' SUBSEQUENT ENROLLMENT AND PERFORMANCE IN MATHEMATICS AND SCIENCE SUBJECTS, INTERIM REPORT
MINNESOTA STATE DEPT. OF EDUCATION, ST. PAUL
REPORT NUMBER BR-5-1028-IR-1
PUB DATE AUG 67
CONTRACT OEC-5-10-051
EDRS PRICE MF-$0.25 HC-$1.25 23P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *SECONDARY SCHOOL SCIENCE, ACADEMIC ACHIEVEMENT, BALL STATE, EXPERIMENTAL PROGRAMS, GRADE 10, GRADE 11, GRADE 9, SCHOOL MATHEMATICS STUDY GROUP (SMSG), THE UNIVERSITY OF ILLINOIS COMMITTEE ON SCHOOL MATHEMATICS (UICSM), UNITED STATES DEPARTMENT OF HEALTH EDUCATION AND WELFARE.

ED 016 533
TOWLER, J.O.
TRAINING EFFECTS AND CONCEPT DEVELOPMENT—A STUDY OF THE CONSERVATION OF CONTINUOUS QUANTITY IN CHILDREN.
PUB DATE 68
EDRS PRICE MF-$0.25 HC-$0.65 11P.

DESCRIPTORS—*COGNITIVE MEASUREMENT, *CONCEPT FORMATION, *EARLY CHILDHOOD, MATHEMATICAL CONCEPTS, *TRANSFER OF TRAINING, COGNITIVE DEVELOPMENT, LEARNING PLATEAUS, MENTAL DEVELOPMENT, PIAGET, POST TESTING, PRETESTING, RETENTION, TRAINING TECHNIQUES.

ED 016 587
SHAW, JUDITH A.
READING PROBLEMS IN MATHEMATICS TEXTS.
PUB DATE AUG 67
EDRS PRICE MF-$0.25 HC-$1.05 19P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHEMATICS, *READABILITY, *SECONDARY SCHOOL MATHEMATICS, *TEXTBOOK EVALUATION, *VOCABULARY, CONTENT READING, READING LEVEL, READING SKILLS, SAN DIEGO STATE COLLEGE, SCHOOL OF EDUCATION.

ED 016 609 24
SUTTON, JOSEPH T.
INDIVIDUALIZING JUNIOR HIGH SCHOOL MATHEMATICS INSTRUCTION. FINAL REPORT.
STETSON UNIV., DELAND, FLA.
REPORT NUMBER BR-5-0525
REPORT NUMBER CRP-1365
PUB DATE AUG 67
CONTRACT OEC-2-10-038
EDRS PRICE MF-$0.50 HC-$3.20 62P.

DESCRIPTORS— *INDIVIDUAL INSTRUCTION, *INSTRUCTION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, CONVENTIONAL INSTRUCTION, EVALUATION, FLORIDA, GRADE 7, PROGRAM EVALUATION, VOLUSIA COUNTY.

ED 016 611
HEWIT, FRANCES MECKES, RICHARD C.
BIBLIOGRAPHIES, ELEMENTARY SCHOOL MATHEMATICS.
ILLINOIS STATE OFF. SUPT. PUB. INSTR., SPRINGFIELD
PUB DATE AUG 66
EDRS PRICE MF-$0.25 HC-$1.90 36P.

DESCRIPTORS— *BIBLIOGRAPHIES, *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS, *REFERENCE MATERIALS, ANNOTATED BIBLIOGRAPHIES, LIBRARY MATERIALS, TEACHER EDUCATION, TEXTBOOKS.

ED 016 612
BENNETT, LURA
A TRANSITIONAL CURRICULUM GUIDE FOR MATHEMATICS IN GRADES 7 AND 8.
NEW MEXICO STATE DEPT. OF EDUCATION, SANTA FE
PUB DATE 66
EDRS PRICE MF-$0.75 HC-$6.85 135P.

DESCRIPTORS— *CURRICULUM GUIDES, *GEOMETRY, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES, ARITHMETIC, CURRICULUM, GRADE 7, GRADE 8, MEASUREMENT, NEW MEXICO, STATISTICS.

ED 016 613
KOCH, RICHARD R.
GUIDELINES FOR MATHEMATICS IN THE ELEMENTARY SCHOOL.
DELAWARE STATE DEPT. OF PUB. INSTRUCTION, DOVER
PUB DATE SEP 66
EDRS PRICE MF-$1.00 HC-$11.05 219P.

DESCRIPTORS— *ARITHMETIC, *CURRICULUM, *CURRICULUM GUIDES, *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS, *TEACHING GUIDES, DELAWARE, MEASUREMENT, TEACHING PROCEDURES, TEACHING TECHNIQUES.

ED 016 614
VAN SPEYBROECK, JAMES ROBBINS, MORTON
SETS, SENTENCES, AND SYSTEMS. HANDBOOK FOR JUNIOR HIGH SCHOOL MATHEMATICS WORKSHOPS.
ILLINOIS STATE OFF. SUPT. PUB. INSTR., SPRINGFIELD
EDRS PRICE MF-$0.50 HC-$3.25 63P.

DESCRIPTORS— *INSERVICE TEACHER EDUCATION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHER WORKSHOPS, MATHEMATICS MATERIALS, TEACHER EDUCATION.

ED 016 615
AN EXPERIMENTAL COURSE IN MATHEMATICS FOR THE NINTH YEAR. UNIT 12, TRIGONOMETRIC FUNCTIONS.
NEW YORK STATE EDUCATION DEPT., ALBANY
PUB DATE 65
EDRS PRICE MF-$0.50 HC-$3.60 70P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM GUIDES, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES, *TRIGONOMETRY, GRADE 9, NEW YORK.

ED 016 616
NINTH YEAR MATHEMATICS, COURSE I, ALGEBRA
NEW YORK STATE EDUCATION DEPT., ALBANY
PUB DATE 65
EDRS PRICE MF-$0.25 HC-$1.35 25P.

DESCRIPTORS— *ALGEBRA, *CURRICULUM GUIDES, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES, ARITHMETIC, GEOMETRY, GRADE 9, NEW YORK, TRIGONOMETRY.

ED 016 617
AN EXPERIMENTAL COURSE IN MATHEMATICS FOR THE NINTH YEAR. UNITS 8 AND 9. POLYNOMIAL EXPRESSIONS AND POLYNOMIAL EQUATIONS.
NEW YORK STATE EDUCATION DEPT., ALBANY
PUB DATE 65
EDRS PRICE MF-$0.50 HC-$3.45 67P.

DESCRIPTORS-- *CURRICULUM, *CURRICULUM GUIDES, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES, ALGEBRA, GRADE 9, NEW YORK.

ED 016 618
AN EXPERIMENTAL COURSE IN MATHEMATICS FOR THE NINTH YEAR. UNITS 10 AND 11. OPEN SENTENCES IN TWO VARIABLES AND RELATIONS AND FUNCTIONS.
N.Y. STATE EDUC. DEPT., ALBANY, BUR. OF SEC. CURR. DEV.
PUB DATE 65
EDRS PRICE MF-$0.50 HC-$4.25 83P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM GUIDES, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, GRADE 9, NEW YORK, TEACHING GUIDES, TRIGONOMETRY.

ED 016 622
RICHMOND, RUTH
INSTRUCTIONAL GUIDE FOR SENIOR MATHEMATICS.
LOS ANGELES CITY SCHOOLS, CALIF.
REPORT NUMBER SC-624
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$2.25 43P.

DESCRIPTORS— *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES, ALGEBRA, ARITHMETIC, CURRICULUM GUIDES, GENERAL EDUCATION, GEOMETRY, GRADE 12.

ED 016 623
RICHMOND, RUTH KUSSMANN
INSTRUCTIONAL GUIDE FOR BASIC MATHEMATICS 1, GRADES 10 TO 12.
LOS ANGELES CITY SCHOOLS, CALIF.
REPORT NUMBER X-58
PUB DATE 66
EDRS PRICE MF-$0.25 HC-$1.80 34P.

DESCRIPTORS— *CURRICULUM DEVELOPMENT, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES, ARITHMETIC, CALIFORNIA, COURSE CONTENT, GEOMETRY, GRADE 10, GRADE 11, GRADE 12, LOS ANGELES, LOW ABILITY STUDENTS, SLOW LEARNERS, STUDENT CHARACTERISTICS.

ED 016 624
WARREN, LEONARD M.
INSTRUCTIONAL GUIDE FOR ALGEBRA 1, GRADES 9 TO 12.
LOS ANGELES CITY SCHOOLS, CALIF.
REPORT NUMBER X-65
PUB DATE 66
EDRS PRICE MF-$0.25 HC-$2.75 53P.

DESCRIPTORS— *ALGEBRA, *CURRICULUM GUIDES, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES, CALIFORNIA, COURSE CONTENT, INSTRUCTIONAL MATERIALS, LOS ANGELES, MATHEMATICS, TEACHING PROCEDURES.

ED 016 632
SUPPES, PATRICK ATKINSON, RICHARD C.
STANFORD PROGRAM IN COMPUTER—ASSISTED INSTRUCTION, PROGRESS REPORT 6, FOR THE PERIOD JANUARY 1, 1967 TO MARCH 31, 1967.
STANFORD UNIV., CALIF. INST. FOR MATH. STUDIES
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$1.30 24P.

DESCRIPTORS— *COMPUTER ASSISTED INSTRUCTION, *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS, *READING, *SLAVIC LANGUAGES, ALGEBRA, CALIFORNIA, COMPUTERS, EVALUATION, LANGUAGES, STANFORD, STANFORD UNIVERSITY.

ED 016 633
SUPPES, PATRICK ATKINSON, RICHARD C.
STANFORD PROGRAM IN COMPUTER—ASSISTED INSTRUCTION, PROGRESS REPORT 7, FOR THE PERIOD APRIL 1, 1967 TO JUNE 30, 1967.
STANFORD UNIV., CALIF. INST. FOR MATH. STUDIES
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$2.30 44P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS, *READING, *SLAVIC LANGUAGES, CALIFORNIA, COMPUTER ASSISTED INSTRUCTION, COMPUTERS, EVALUATION, LANGUAGES, STANFORD, STANFORD UNIVERSITY.

ED 016 653
JOHNSON, MAURITZ SCRIVEN, ELDON
CLASS SIZE AND ACHIEVEMENT GAINS IN SEVENTH- AND EIGHTH-GRADE ENGLISH AND MATHEMATICS.
PUB DATE 67
EDRS PRICE MF-$0.25 HC-$0.70 12P.

DESCRIPTORS— *ACHIEVEMENT GAINS, *CLASS SIZE, *ENGLISH INSTRUCTION, *HOMOGENEOUS GROUPING, *MATHEMATICS INSTRUCTION, ARITHMETIC, GRADE 7, GRADE 8, NEW YORK STATE, READING COMPREHENSION, TEACHING LOAD.

ED 016 784
LANDIS, WILLIAM HARPER
SECONDARY STUDENTS' MATHEMATICS COMPETENCIES IN RELATION TO EMPLOYMENT TESTS.
UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES
REPORT NUMBER BR-6-8323
PUB DATE 67
GRANT OEG-4-6-068323-0740
EDRS PRICE MF-$0.75 HC-$9.95 197P.

DESCRIPTORS— *HIGH SCHOOL STUDENTS, *JOB APPLICATION, *MATHEMATICS, *SCREENING TESTS, CALIFORNIA, COMPARATIVE ANALYSIS, DOCTORAL THESES, EMPLOYERS, MATHEMATICAL EXPERIENCE, TERMINAL STUDENTS.

ED 017 011
CHAPIN, JUNE R.
USE OF DISCRIMINANT ANALYSIS IN A STUDY OF THE PATTERNS OF CHARACTERISTICS OF MATHEMATICS TEACHERS
AMERICAN EDUCATIONAL RESEARCH ASSN., WASH., D.C.
PUB DATE 68
EDRS PRICE MF-$0.25 HC-$0.80 14P.

DESCRIPTORS— *DISCRIMINANT ANALYSIS, *MATHEMATICS TEACHERS, *TEACHER CHARACTERISTICS.

ED 017 167 56
STOLUROW, LAWRENCE M.
PROGRAMED INSTRUCTIONS AND THE TEACHING OF MATHEMATICS.
ILLINOIS UNIV., URBANA, BUR. OF EDUC. RESEARCH
REPORT NUMBER PN-711151-01
REPORT NUMBER 7A-806
PUB DATE 29 DEC 63
EDRS PRICE MF-$0.25 HC-$1.10 20P.

DESCRIPTORS— *CURRICULUM RESEARCH, *MATHEMATICS INSTRUCTION, *METHODS RESEARCH, *PROGRAMED INSTRUCTION, DISCOVERY LEARNING, LEARNING PROCESSES, LEARNING THEORIES.

ED 017 451 24
SEVENTH YEAR MATHEMATICS, VOLUME I, EXPERIMENTAL EDITION.
SECONDARY SCHOOL MATHEMATICS CURRICULUM IMPR. STUDY
REPORT NUMBER BR-5-0647
PUB DATE 66
EDRS PRICE MF-$0.50 HC-$5.45 107P.

DESCRIPTORS— *CURRICULUM, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *STATISTICS, CURRICULUM DEVELOPMENT, CURRICULUM GUIDES, GRADE 7, NUMBER SYSTEMS, SET THEORY.

ED 017 452 24
MATHEMATICS I, VOLUME 3, EXPERIMENTAL EDITION.
SECONDARY SCHOOL MATHEMATICS CURRICULUM IMPR. STUDY
REPORT NUMBER BR-5-0647
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$6.00 118P.

DESCRIPTORS— *CURRICULUM, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, CURRICULUM DEVELOPMENT, GEOMETRY, GRADE 7.

ED 017 453
MATHEMATICS I, VOLUME 2, EXPERIMENTAL EDITION.
SECONDARY SCHOOL MATHEMATICS CURRICULUM IMPR. STUDY
REPORT NUMBER BR-5-0647
PUB DATE 66
EDRS PRICE MF-$0.25 HC-$2.65 51P.

DESCRIPTORS— *CURRICULUM, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, CURRICULUM DEVELOPMENT, CURRICULUM GUIDES, SECONDARY SCHOOL MATHEMATICS.

ED 017 454
SHARPE, GLYN H.
SOME BEHAVIORAL OBJECTIVES FOR ELEMENTARY SCHOOL MATHEMATICS PROGRAMS.
COLORADO STATE DEPT. OF EDUCATION, DENVER
PUB DATE AUG 66
EDRS PRICE MF-$0.25 HC-$1.60 30P.

DESCRIPTORS— *EDUCATIONAL OBJECTIVES, *ELEMENTARY SCHOOL MATHEMATICS, *EVALUATION, *MATHEMATICS, ARITHMETIC, BEHAVIORAL OBJECTIVES, GEOMETRY, OBJECTIVES.

ED 017 457
SPROSS, PATRICIA M.
ELEMENTARY ARITHMETIC AND LEARNING AIDS.
OFFICE OF EDUCATION (DHEW), WASHINGTON, D.C.
REPORT NUMBER OE-29063
PUB DATE 65
EDRS PRICE MF-$0.75 HC NOT AVAILABLE FROM EDRS 142P.

DESCRIPTORS— *ARITHMETIC, *CURRICULUM, *CURRICULUM GUIDES, *ELEMENTARY SCHOOL MATHEMATICS, *INSERVICE TEACHER EDUCATION, *INSTRUCTIONAL AIDS, *MATHEMATICS, *TEACHER EDUCATION.

ED 017 458 24
DAVIS, ROBERT B.
A MODERN MATHEMATICS PROGRAM AS IT PERTAINS TO THE INTERRELATIONSHIP OF MATHEMATICAL CONTENT, TEACHING METHODS AND CLASSROOM ATMOSPHERE, THE MADISON PROJECT.
SYRACUSE UNIV., N.Y.
REPORT NUMBER BR-5-1172
WEBSTER COLL., WEBSTERS GROVE, MO.
PUB DATE OCT 67
EDRS PRICE MF-$1.50 HC-$19.15 381P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING METHODS, ALGEBRA, ARITHMETIC, GEOMETRY, SYRACUSE UNIVERSITY, THE MADISON PROJECT, WEBSTER UNIVERSITY.

ED 017 459
MENDELSOHN, MELVIN
MATHEMATICS EDUCATION PROGRAMS FUNDED UNDER TITLE I ELEMENTARY AND SECONDARY EDUCATION ACT OF 1965.
NEW YORK STATE EDUCATION DEPT., ALBANY
PUB DATE 68
EDRS PRICE MF-$0.25 HC-$2.70 52P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *EDUCATIONALLY DISADVANTAGED, *FEDERAL AID, *MATHEMATICS, *MATHEMATICS EDUCATION, *PROGRAM DESCRIPTIONS, *SECONDARY SCHOOL

MATHEMATICS, ELEMENTARY AND SECONDARY EDUCATION ACT, ELEMENTARY SCHOOL MATHEMATICS, INSTRUCTION, NEW YORK, SMALL GROUP INSTRUCTION, TITLE I.

ED 017 460
DUREN, WILLIAM L.
TENTATIVE RECOMMENDATIONS FOR THE UNDERGRADUATE MATHEMATICS PROGRAM OF STUDENTS IN THE BIOLOGICAL MANAGEMENT AND SOCIAL SCIENCES.
COMMITTEE ON THE UNDERGRADUATE PROGRAM IN MATH.
PUB DATE JAN 64
EDRS PRICE MF-$0.25 HC-$1.75 33P.

DESCRIPTORS— *COLLEGE MATHEMATICS, *CURRICULUM DEVELOPMENT, *MATHEMATICS,*SOCIAL SCIENCES, *UNDERGRADUATE STUDY, ALGEBRA, BIOLOGY, CURRICULUM, HIGHER EDUCATION, INSTRUCTION, MATHEMATICAL ASSOCIATION OF AMERICA, NATIONAL SCIENCE FOUNDATION, STATISTICS.

ED 017 461
ANDERSON, RICHARD D.
A CURRICULUM IN APPLIED MATHEMATICS.
COMMITTEE ON THE UNDERGRADUATE PROGRAM IN MATH.
PUB DATE JAN 66
EDRS PRICE MF-$0.25 HC-$1.70 32P.

DESCRIPTORS— *COLLEGE MATHEMATICS, *CURRICULUM, *CURRICULUM DEVELOPMENT, *MATHEMATICAL APPLICATIONS, *MATHEMATICS, ENGINEERING, MATHEMATICAL ASSOCIATION OF AMERICA, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCES, SOCIAL SCIENCES, UNDERGRADUATE STUDY.

ED 017 463
ANDERSON, RICHARD D.
MATHEMATICAL ENGINEERING, A FIVE YEAR PROGRAM.
COMMITTEE ON THE UNDERGRADUATE PROGRAM IN MATH.
PUB DATE OCT 66
EDRS PRICE MF-$0.50 HC-$4.50 88P.

DESCRIPTORS— *COLLEGE MATHEMATICS, *CURRICULUM, *CURRICULUM DEVELOPMENT, *ENGINEERING, *MATHEMATICS, *UNDERGRADUATE STUDY, CURRICULUM GUIDES, HIGHER EDUCATION, INSTRUCTION, MATHEMATICAL ASSOCIATION OF AMERICA, NATIONAL SCIENCE FOUNDATION.

ED 017 464
ANDERSON, RICHARD D.
QUALIFICATIONS FOR A COLLEGE FACULTY IN MATHEMATICS.
COMMITTEE ON THE UNDERGRADUATE PROGRAM IN MATH.
PUB DATE JAN 67
EDRS PRICE MF-$0.25 HC-$1.15 21P.

DESCRIPTORS— *COLLEGE FACULTY, *COLLEGE TEACHERS, *MATHEMATICS, *TEACHER EDUCATION, *TEACHER QUALIFICATIONS, COLLEGE MATHEMATICS, FACULTY, HIGHER EDUCATION, MATHEMATICAL ASSOCIATION OF AMERICA, MATHEMATICS TEACHERS, NATIONAL SCIENCE FOUNDATION.

ED 017 465
SCANDURA, JOSEPH M.
TEACHING COLLEGE STUDENTS HOW TO LEARN MATHEMATICS, WHAT IS LEARNED IN MATHEMATICAL DISCOVERY.
PENNSYLVANIA UNIV., PHILADELPHIA
PUB DATE 67
CONTRACT OEC-1-7-068798-0360
EDRS PRICE MF-$0.50 HC-$5.15 101P.

DESCRIPTORS— *COLLEGE MATHEMATICS, *DISCOVERY LEARNING, *INSTRUCTION, *MATHEMATICS, *TEACHING METHODS, LEARNING, PROGRAMED INSTRUCTION, PROGRAMED MATERIALS, TRANSFER OF TRAINING, UNIVERSITY OF PENNSYLVANIA.

ED 017 637
LAWS, NORMAN G.
MATHEMATICAL EXPECTATIONS OF TECHNICIANS IN MICHIGAN INDUSTRIES, A SPECIAL VOCATIONAL EDUCATION RESEARCH PROJECT.
MICHIGAN ST. DEPT. OF PUBLIC INSTR., LANSING
PUB DATE JUL 66
EDRS PRICE MF-$0.50 HC-$3.10 60P.

DESCRIPTORS— *EDUCATIONAL NEEDS, *MATHEMATICS, *SUBPROFESSIONALS, EMPLOYMENT QUALIFICATIONS, INDUSTRY, INTERVIEWS, MICHIGAN, QUESTIONNAIRES, SURVEYS.

ED 018 067
FRAME, J. SUTHERLAND MCLEOD, JOHN W.
BUILDINGS AND FACILITIES FOR THE MATHEMATICAL SCIENCES.
CONFERENCE BOARD OF THE MATHEMATICAL SCIENCES, WASH., D.C.

EDUCATIONAL FACILITIES LABS. INC., NEW YORK, N.Y.
PUB DATE 63
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *EDUCATIONAL FACILITIES, *FACILITY GUIDELINES, *INSTRUCTIONAL MATERIALS, *MATHEMATICS INSTRUCTION, *PLANNING, AUDIOVISUAL AIDS, COURSE CONTENT, ENROLLMENT TRENDS, EQUIPMENT, INDIVIDUAL STUDY, LABORATORIES, LIBRARY FACILITIES.

ED 018 111 64
HOMME, LLOYD E.
A DEMONSTRATION OF THE USE OF SELF-INSTRUCTIONAL AND OTHER TEACHING TECHNIQUES FOR REMEDIAL INSTRUCTION OF LOW-ACHIEVING ADOLESCENTS IN READING AND MATHEMATICS. TECHNICAL PROGRESS REPORT NO. 2.
TMI INSTITUTE, ALBUQUERQUE, N. MEX.
REPORT NUMBER BR-5-0709
REPORT NUMBER NDEA-7B-487
PUB DATE 05 JAN 68
CONTRACT OEC-4-16-033
EDRS PRICE MF-$0.50 HC-$3.95 77P.

DESCRIPTORS— *ADMINISTRATOR ATTITUDES, *LOW ACHIEVERS, *PERFORMANCE TESTS, *SCHEDULING, *TEACHER ATTITUDES, ACADEMIC PERFORMANCE, ADOLESCENTS, ALBUQUERQUE, CLASSROOM TECHNIQUES, ESPERANZA SCHOOL, EXPERIMENTS, MANUALS, MOTIVATION TECHNIQUES, NEW MEXICO, PROGRAMED INSTRUCTION, REMEDIAL INSTRUCTION, SOCIALLY DEVIANT BEHAVIOR, TASK PERFORMANCE, TEACHING TECHNIQUES.

ED 018 272
IN-SERVICE EDUCATION IN ELEMENTARY SCHOOL MATHEMATICS.
NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS INC.
PUB DATE 67
EDRS PRICE MF-$0.50 HC NOT AVAILABLE FROM EDRS. 60P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHEMATICS, *INSERVICE TEACHER EDUCATION, *MATHEMATICS EDUCATION, ELEMENTARY SCHOOL TEACHERS, INDEPENDENT STUDY, INSTITUTES (TRAINING PROGRAMS), PROGRAM EVALUATION, TEACHER QUALIFICATIONS, TEACHER WORKSHOPS.

ED 018 276
MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS.
NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS INC.
PUB DATE 66
EDRS PRICE MF-$1.00 HC NOT AVAILABLE FROM EDRS. 219P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICAL CONCEPTS, *MATHEMATICS INSTRUCTION, *SET THEORY, *TEACHING GUIDES, ALGORITHMS, ARITHMETIC, NUMBER CONCEPTS, TEXTBOOKS.

ED 018 362
AN EXPERIMENTAL COURSE IN MATHEMATICS FOR THE NINTH YEAR, UNITS 1, 2, 3, AND 4.
NEW YORK STATE EDUCATION DEPT., ALBANY
PUB DATE 64
EDRS PRICE MF-$0.50 HC-$6.25 123P.

DESCRIPTORS— *ALGEBRA, *CURRICULUM, *CURRICULUM GUIDES, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *SET THEORY, *TEACHING GUIDES, *TEACHING METHODS, GRADE 9, NEW YORK.

ED 018 364
COMPUTER ASSISTED MATHEMATICS INSTRUCTION, PILOT PROJECT.
CONNECTICUT STATE DEPT. OF EDUCATION, HARTFORD
PUB DATE 66
EDRS PRICE MF-$0.25 HC-$1.85 35P.

DESCRIPTORS— *COMPUTER ASSISTED INSTRUCTION, *CURRICULUM DEVELOPMENT, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, COMPUTERS, TEACHER EDUCATION.

ED 018 367
WINGET, LERUE
BUSINESS, INDUSTRIAL ARTS, AND GENERAL CONSUMER MATHEMATICS GUIDE, TENTATIVE.
UTAH STATE BOARD OF EDUCATION, SALT LAKE CITY
PUB DATE 66
EDRS PRICE MF-$0.50 HC-$6.35 125P.

DESCRIPTORS— *BUSINESS EDUCATION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHING GUIDES, ALGEBRA, ARITHMETIC, GENERAL EDUCATION, GEOMETRY, INDUSTRIAL ARTS, SALT LAKE CITY, UTAH, UTAH STATE BOARD OF EDUCATION.

GPO 812-855-3

ED 018 369
ENGELKING, D.F.
MATHEMATICS PROGRAM FOR IDAHO PUBLIC SCHOOLS.
IDAHO STATE DEPT. OF EDUCATION, BOISE
PUB DATE 65
EDRS PRICE MF-$0.25 HC-$1.90 36P.

DESCRIPTORS— *ARITHMETIC, *CURRICULUM GUIDES, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ADVANCED PLACEMENT, ALGEBRA, BOISE, CURRICULUM, ELEMENTARY SCHOOL MATHEMATICS, GEOMETRY, IDAHO, IDAHO STATE DEPARTMENT OF EDUCATION, SPIRAL CURRICULUM.

ED 018 372
WHEELER, D. H. AND OTHERS
NOTES ON MATHEMATICS IN PRIMARY SCHOOLS.
ASSOCIATION OF TEACHERS OF MATHEMATICS
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTION, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, *TEACHING METHODS, LEARNING, TEACHING PROCEDURES.

ED 018 378
KENNEDY, LEONARD M.
MODELS FOR MATHEMATICS IN THE SCHOOL.
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *AUDIOVISUAL AIDS, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, ARITHMETIC, GEOMETRY, INSTRUCTION, LEARNING, MATHEMATICAL CONCEPTS, MATHEMATICAL MODELS, MECHANICAL TEACHING AIDS.

ED 018 389
A LIST OF "GIMMICKS" FOR USE WITH JUNIOR HIGH SCHOOL STUDENTS.
CENTRAL IOWA LOW-ACHIEVER MATHEMATICS PROJECT
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$4.95 97P.

DESCRIPTORS— *INSTRUCTION, *LOW ACHIEVERS, *RESOURCE MATERIALS, *SECONDARY SCHOOL MATHEMATICS, ARITHMETIC, CENTRAL IOWA LOW-ACHIEVER MATHEMATICS PROJECT, GRADE 7, GRADE 8, GRADE 9, LEARNING, MATHEMATICS, SLOW LEARNERS.

ED 018 390
GLENN, EUEL
AXIOMS, EQUATIONS, AND PROBLEM SOLVING, LEARNING ACTIVITY PACKAGE NO. 3, ALGEBRA I.
HUGHSON UNION HIGH SCHOOL, CALIF.
REPORT NUMBER DPSC 67-4401
PUB DATE JUL 67
EDRS PRICE MF-$0.25 HC-$2.15 41P.

DESCRIPTORS— *INDIVIDUAL INSTRUCTION, *INSTRUCTION, *INSTRUCTIONAL MATERIALS, *LEARNING, *MATHEMATICS, *PROBLEM SOLVING, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, GRADE 9.

ED 018 393
RESNICK, LAUREN B.
DESIGN OF AN EARLY LEARNING CURRICULUM.
PITTSBURGH UNIV., PA., LEARNING RES. AND DEV. CTR.
PUB DATE DEC 67
EDRS PRICE MF-$0.50 HC-$3.45 67P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *ELEMENTARY EDUCATION, *ELEMENTARY SCHOOL MATHEMATICS, *LEARNING, *MATHEMATICS, INTELLECTUAL DEVELOPMENT, LEARNING RESEARCH AND DEVELOPMENT CENTER, PENNSYLVANIA, PITTSBURGH, UNIVERSITY OF PITTSBURGH.

ED 018 394
DYE, DAVID L.
STATUS OF MATHEMATICS EDUCATION IN MINNESOTA SCHOOLS.
MINNESOTA STATE DEPT. OF EDUCATION, ST. PAUL
PUB DATE 66
EDRS PRICE MF-$0.25 HC-$1.80 34P.

DESCRIPTORS— *CURRICULUM, *ELEMENTARY SCHOOL MATHEMATICS, *INSERVICE TEACHER EDUCATION, *MATHEMATICS, *MATHEMATICS EDUCATION, *SECONDARY SCHOOL MATHEMATICS, *TEACHER QUALIFICATIONS, EVALUATION, MINNESOTA, OVERHEAD PROJECTORS, TEACHER EDUCATION, TEXTBOOKS.

ED 018 398
FULBRIGHT, CARLETON B. AND OTHERS
DESCRIPTIVE OUTLINE OF MISSOURI'S IN-SERVICE TEACHER EDUCATION PROGRAM IN ELEMENTARY MATHEMATICS.
MISSOURI STATE DEPT. OF EDUCATION, JEFFERSON CITY
PUB DATE 66
EDRS PRICE MF-$0.25 HC-$0.60 10P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHEMATICS, *INSERVICE TEACHER EDUCATION, *MATHEMATICS, *TEACHER EDUCATION, CURRICULUM, INSTRUCTIONAL MATERIALS, MISSOURI.

ED 019 004
TEACHING MACHINE STUDY. FINAL REPORT.
EVCO, ALBUQUERQUE, N.M.
REPORT NUMBER OEO-1290
PUB DATE 13 JAN 67
EDRS PRICE MF-$0.25 HC-$2.20 42P.

DESCRIPTORS— *JOB TRAINING, *MATHEMATICS INSTRUCTION, *PROGRAMED INSTRUCTION, *PROGRAMED MATERIALS, *TEACHING MACHINES, CONSERVATION CENTERS, EDUCATIONAL RESEARCH, GRADE 7, JOB CORPS, MAST.

ED 019 009 56
ARCHER, N. SIDNEY WOODLEN, MILTON C.
THE TEACHER, PROGRAMED MATERIALS, AND INSTRUCTIONAL INTERACTION—AN ASSESSMENT OF FIVE SELECTED CONDITIONS OF TEACHER AND PROGRAM INTEGRATION. FINAL REPORT.
PENNSYLVANIA STATE DEPT. OF PUBLIC INSTRUCTION
REPORT NUMBER BR-5-0889
PUB DATE MAY 67
GRANT OEG-7-48-0000-215
EDRS PRICE MF-$0.25 HC-$1.40 26P.

DESCRIPTORS— *ALGEBRA, *PROGRAMED INSTRUCTION, *PROGRAMED MATERIALS, *TEACHER ATTITUDES, *TEACHING METHODS, MANOVA, MATHEMATICS EDUCATION, SECONDARY EDUCATION, SRA, TEMAC.

ED 019 053
MANSFIELD, HENRY, JR.
A REPORT ON EXPERIMENTATION IN THE TEACHING OF THE FIRST COURSE IN ALGEBRA AT EL CAMINO COLLEGE.
PUB DATE 02 MAR 68
EDRS PRICE MF-$0.25 HC-$1.25 23P.

DESCRIPTORS— *ALGEBRA, *JUNIOR COLLEGES, *LARGE GROUP INSTRUCTION, *MATHEMATICS INSTRUCTION, *PROGRAMED MATERIALS, CALIFORNIA, CLASS SIZE, EL CAMINO COLLEGE, EXPERIMENTAL TEACHING, INSTRUCTIONAL INNOVATION.

ED 019 113 24
STEFFE, LESLIE P.
THE EFFECTS OF TWO VARIABLES ON THE PROBLEM-SOLVING ABILITIES OF FIRST-GRADE CHILDREN.
WISCONSIN UNIV., MADISON
REPORT NUMBER TR-21
REPORT NUMBER BR-5-0216
PUB DATE MAR 67
CONTRACT OEC-5-10-154
EDRS PRICE MF-$0.25 HC-$1.25 23P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *GRADE 1, *MATHEMATICS INSTRUCTION, *PROBLEM SOLVING, ARITHMETIC CURRICULUM, CURRICULUM EVALUATION, CURRICULUM RESEARCH, PROBLEM SETS.

ED 019 226 24
ROGLER, PAUL V.
WILMINGTON OPERATIONAL MATHEMATICS PROGRAM.
WILMINGTON PUBLIC SCHOOLS, DEL.
REPORT NUMBER BR-6-8786
EDRS PRICE MF-$0.75 HC-$8.55 169P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, DELAWARE, GEOMETRY, GRADE 9, WILMINGTON, WILMINGTON PUBLIC SCHOOLS.

ED 019 251
GENERAL REPORT OF MATHEMATICS CONFERENCE AND TWO SPECIFIC REPORTS, (TITLE SUPPLIED).
EDUCATIONAL SERVICES INC., WATERTOWN, MASS.
PUB DATE JUL 65
EDRS PRICE MF-$0.25 HC-$0.90 16P.

DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROBLEMS, *MATHEMATICS, *TEACHER IMPROVEMENT, ABLE STUDENTS, CAMBRIDGE, COLLEGE MATHEMATICS, CULTURALLY DISADVANTAGED, ELEMENTARY SCHOOL MATHEMATICS, GEOMETRY, MASSACHUSETTS, MATHEMATICS EDUCATION, SECONDARY SCHOOL MATHEMATICS.

ED 019 613
BLAND, DAVID HORTON
A STUDY OF THE ACHIEVEMENT LEVELS IN READING AND COMPUTATION OF INCARCERATED ADULT MALES IN THE NORTH CAROLINA PRISON SYSTEM.
NORTH CAROLINA UNIV., RALEIGH, N.C. STATE UNIV.
PUB DATE MAY 68
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ACHIEVEMENT, *ARITHMETIC, *CORRECTIVE INSTITUTIONS, *PRISONERS, *READING, AGE DIFFERENCES, CRIME, EDUCATIONAL BACKGROUND, INDIVIDUAL CHARACTERISTICS, INSTITUTIONALIZED (PERSONS), READING ACHIEVEMENT, STATISTICAL DATA.

ED 019 796 24
WARDROP, JAMES L. AND OTHERS
RESEARCH AND DEVELOPMENT ACTIVITIES IN R/I UNITS OF TWO ELEMENTARY SCHOOLS OF MANITOWOC, WISCONSIN, 1966—1967.
WISCONSIN UNIV., MADISON
REPORT NUMBER TR-35
REPORT NUMBER CRP-2850
REPORT NUMBER BR-5-0216
PUB DATE NOV 67
CONTRACT OEC-5-10-154
EDRS PRICE MF-$0.25 HC-$0.75 13P.

DESCRIPTORS— *ACHIEVEMENT, *EXCEPTIONAL CHILD RESEARCH, *GROUPING (INSTRUCTIONAL PURPOSES), *LANGUAGE ARTS, *MATHEMATICS, ABILITY GROUPING, CONVENTIONAL INSTRUCTION, EDUCATIONAL RESEARCH, EXPERIMENTAL GROUPS, GRADE 3, GRADE 4, HETEROGENEOUS GROUPING, HOMOGENEOUS GROUPING, INDIVIDUAL INSTRUCTION, INDIVIDUALIZED PROGRAMS, LEARNING CHARACTERISTICS, SPELLING.

ED 019 855
COMPUTER FACILITIES FOR MATHEMATICS INSTRUCTION.
NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS INC.
EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS. 51P.

DESCRIPTORS— *COMPUTER ASSISTED INSTRUCTION, *COST EFFECTIVENESS, *SECONDARY SCHOOL MATHEMATICS, *SYSTEMS APPROACH, *TIME SHARING, ALGOL, ALGORITHMS, COMPARATIVE ANALYSIS, COMPUTER SCIENCE, EDUCATIONAL EQUIPMENT, ELECTRONIC EQUIPMENT, FORTRAN, MATHEMATICS INSTRUCTION, TELETYPE.

ED 019 888
COMPUTER ORIENTED MATHEMATICS, AN INTRODUCTION FOR TEACHERS.
NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS INC.
PUB DATE 63
EDRS PRICE MF-$1.00 HC NOT AVAILABLE FROM EDRS. 212P.

DESCRIPTORS— *COMPUTERS, *MATHEMATICS, *MATHEMATICS TEACHERS, *SECONDARY SCHOOL MATHEMATICS, ANALOG COMPUTERS, BRAINIAC, COMP, COMPIAC, COMPUTER PROGRAMS, DIGITAL COMPUTERS, MATHEMATICAL ENRICHMENT, MINIVAC, PAPAC.

ED 019 889
REVIEWS OF FILMS, REPORT OF SOME REVIEWING COMMITTEES.
NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS INC.
EDRS PRICE MF-$0.25 HC NOT AVAILABLE FROM EDRS. 29P.

DESCRIPTORS— *COLLEGE MATHEMATICS, *INSTRUCTIONAL FILMS, *MATHEMATICS, *MATHEMATICS INSTRUCTION, *SECONDARY SCHOOL MATHEMATICS, NATIONAL COUNCIL OF TEACHERS OF EDUCATION, REFERENCE MATERIALS, RESOURCE GUIDES, TEACHER TRAINING EDUCATION.

ED 020 063
CLENDENIN, MARY JOE
PROGRAMMED MATHEMATICS, CLOUDCROFT HIGH SCHOOL
NEW MEXICO WESTERN STATES SMALL SCHOOLS PROJECT
PUB DATE NOV 65
EDRS PRICE MF-$0.25 HC-$0.50 8P.

DESCRIPTORS— *ALGEBRA, *HIGH SCHOOLS, *MODERN MATHEMATICS, *PROGRAMED MATERIALS, *SMALL SCHOOLS, *INDIVIDUALIZED PROGRAMS, MATHEMATICAL CONCEPTS, MATHEMATICS, MATHEMATICS INSTRUCTION, MATHEMATICS MATERIALS, PROGRAM EFFECTIVENESS, PROGRAMED INSTRUCTION, PROGRAMED TEXTS.

ED 020 064
MORROW, THOMAS J.
PROGRAMMED MATHEMATICS, DES MOINES HIGH SCHOOL
NEW MEXICO WESTERN STATES SMALL SCHOOLS PROJECT
PUB DATE NOV 65
EDRS PRICE MF-$0.25 HC-0.50 8P.

DESCRIPTORS— *GROUPING (INSTRUCTIONAL PURPOSES), *MATHEMATICS, *PROGRAM EVALUATION, *PROGRAMED MATERIALS, *SMALL SCHOOLS, CARRELS, CLASS ORGANIZATION, COLLEGE PREPARATION, CREDITS, GRADING, IOWA TESTS EDUCA. DEV. MATHEMATICS INSTRUCTION, MODERN MATHEMATICS, SECONDARY SCHOOL MATHEMATICS, SLOW LEARNERS, SRA, STUDENT TEACHER RELATIONSHIP, TERMINAL STUDENTS, TMI GROLIER.

ED 020 114
PHILLIPS, GUSSIE
NUMBER AND OPERATION, HANDBOOK FOR ELEMENTARY MATHEMATICS WORKSHOPS.
ILLINOIS STATE OFF. SUPT. PUB. INSTR., SPRINGFIELD
PUB DATE 62
EDRS PRICE MF-$1.00 HC-$10.65 211P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSERVICE TEACHER EDUCATION, *MATHEMATICS, *TEACHER EDUCATION, MATHEMATICS EDUCATION, WORKSHOPS.

ED 020 115
WOODS, PAUL E.
BIBLIOGRAPHIES, HIGH SCHOOL MATHEMATICS.
ILLINOIS STATE OFF. SUPT. PUB. INSTR., SPRINGFIELD
PUB DATE SEP 66
EDRS PRICE MF-$0.25 HC-$2.10 40P.

DESCRIPTORS— *ANNOTATED BIBLIOGRAPHIES, *BIBLIOGRAPHIES, *MATHEMATICS, *REFERENCE BOOKS, *SECONDARY SCHOOL MATHEMATICS, ALGEBRA, CALCULUS, GEOMETRY, PUBLICATIONS, TEXTBOOKS, TRIGONOMETRY.

ED 020 119 24
YOUNG, G.S.
A STUDY OF PRODUCTIVITY, RESEARCH ACTIVITIES, AND POSITIONS OF POST-WAR PH.D.'S IN MATHEMATICS.
REPORT NUMBER BR-5-8244
EDRS PRICE MF-$0.25 HC-$1.15 21P.

DESCRIPTORS— *GRADUATE STUDY, *MATHEMATICS, HIGHER EDUCATION, MANPOWER DEVELOPMENT, MATHEMATICIANS, MATHEMATICS TEACHERS, PERFORMANCE, RESEARCH, SCIENTIFIC MANPOWER, TEACHER EVALUATION.

ED 020 120
CLARK, JOHN LOVELASS, VERA
BIBLIOGRAPHIC GUIDE FOR ADVANCED PLACEMENT, MATHEMATICS.
NEW YORK STATE EDUCATION DEPT., ALBANY
PUB DATE 65
EDRS PRICE MF-$0.25 HC-$0.90 16P.

DESCRIPTORS— *ADVANCED PLACEMENT, *BIBLIOGRAPHIES, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, *REFERENCE MATERIALS, AUDIOVISUAL AIDS, NEW YORK STATE EDUCATION DEPARTMENT, SECONDARY SCHOOL MATHEMATICS.

ED 020 126
MARTIN, BERNARD LOYAL
SPATIAL VISUALIZATION ABILITIES OF CENTRAL WASHINGTON STATE COLLEGE PROSPECTIVE ELEMENTARY AND SECONDARY TEACHERS OF MATHEMATICS.
OREGON STATE UNIV., CORVALLIS
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *DOCTORAL THESES, *ELEMENTARY SCHOOL TEACHERS, *LEARNING, *SECONDARY SCHOOL TEACHERS, *TEACHER EDUCATION, ABILITY, CENTRAL WASHINGTON STATE COLLEGE, DIFFERENTIAL APTITUDE TEST OF SPACE RELATIONS, EVALUATION, MATHEMATICS, REVISED MINNESOTA PAPER FORM BOARD TEST, SEQUENTIAL TEST OF EDUCATIONAL PROGRESS (MATHEMATICS), SPACE ORIENTATION, WASHINGTON.

ED 020 327
BARLOW, MELVIN L. SCHILL, WILLIAM JOHN
THE ROLE OF MATHEMATICS IN ELECTRICAL-ELECTRONIC TECHNOLOGY.
CALIFORNIA UNIV., LOS ANGELES
PUB DATE 62
EDRS PRICE MF-$0.75 HC-$6.85 135P.

DESCRIPTORS— *EDUCATIONAL NEEDS, *ELECTRONICS TECHNICIANS, *MATHEMATICS, EMPLOYEE ATTITUDES, FIELD INTERVIEWS, JUNIOR COLLEGES, Q SORT, SURVEYS, TEACHER ATTITUDES, TECHNICAL EDUCATION, TECHNICAL MATHEMATICS.

ED 020 660
LERNER, SEYMOUR
THE COMPUTER AS AN AID IN TEACHING MATHEMATICS, AN INSTRUCTIONAL BULLETIN, GRADES 7—10.
LOS ANGELES CITY SCHOOLS, CALIF.
REPORT NUMBER ESEA-5
PUB DATE 67
EDRS PRICE MF-$0.50 HC-$5.45 107P.

DESCRIPTORS— *COMPUTER ASSISTED INSTRUCTION, *COMPUTERS, *MATHEMATICS INSTRUCTION, ANALOG COMPUTERS, CONCEPT FORMATION, CONCEPT TEACHING, DIGITAL COMPUTERS, EDUCATIONAL OBJECTIVES, FORTRAN, INDIVIDUAL STUDY, MATHEMATICAL CONCEPTS, PROBLEM SOLVING, SELF ESTEEM, STUDENT BEHAVIOR, STUDY HABITS, TRANSPARENCIES, WYLE SCIENTIFIC.

ED 020 675 56
BROWN, O. ROBERT, JR.
ACHIEVEMENT OF STUDENTS FROM GROUPS INSTRUCTED BY PROGRAMED MATERIALS, CLASSROOM TEACHER, OR BOTH. COMPARATIVE STUDIES OF PRINCIPLES FOR PROGRAMMING MATHEMATICS IN AUTOMATED INSTRUCTION, TECHNICAL REPORT NO. 12.
ILLINOIS UNIV., URBANA
REPORT NUMBER NDEA-7A-806
PUB DATE JUL 64
EDRS PRICE MF-$0.25 HC-$2.00 38P.

DESCRIPTORS— *EQUATED SCORES, *MATHEMATICS INSTRUCTION, *PROGRAM EVALUATION, *PROGRAMED INSTRUCTION, *PROGRAMED TEXTS, ABILITY GROUPING, ACADEMIC ACHIEVEMENT, ALGEBRA, GRADE 9, INSTRUCTIONAL MATERIALS, PROGRAMED UNITS, SECONDARY SCHOOL MATHEMATICS, SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS, TEST OF GENERAL ABILITY.

ED 020 676
ROSEN, ELLEN F. STOLUROW, LAWRENCE M.
AN ATTEMPT TO FIND AN A PRIORI MEASURE OF STEP SIZE, COMPARATIVE STUDIES OF PRINCIPLES FOR PROGRAMMING MATHEMATICS IN AUTOMATED INSTRUCTION, TECHNICAL REPORT NO. 13.
ILLINOIS UNIV., URBANA
REPORT NUMBER NDEA-7A-806
PUB DATE JUL 64
EDRS PRICE MF-$0.25 HC-$1.35 25P.

DESCRIPTORS— *MATHEMATICS INSTRUCTION, *PROGRAMED INSTRUCTION, *PROGRAMED TEXTS, LEARNING DIFFICULTIES, LEARNING PROCESSES, MATHEMATICS MATERIALS, PROGRAMING PROBLEMS.

ED 020 683
SUPPES, PATRICK AND OTHERS
LINEAR STRUCTURAL MODELS FOR RESPONSE AND LATENCY PERFORMANCE IN ARITHMETIC. PSYCHOLOGY SERIES, TECHNICAL REPORT NO. 100.
STANFORD UNIV., CALIF. INST. FOR MATH. STUDIES
PUB DATE 29 JUL 66
EDRS PRICE MF-$0.50 HC-$5.15 101P.

DESCRIPTORS— *ARITHMETIC, *LEARNING THEORIES, *PERFORMANCE FACTORS, *PROBLEM SOLVING, *RESPONSE MODE, COGNITIVE PROCESSES, COMPUTER ASSISTED INSTRUCTION, CONCEPT FORMATION, ELEMENTARY SCHOOL MATHEMATICS, FACTORY ANALYSIS, GRADE 3, GRADE 4, GRADE 5, GRADE 6, LEARNING PROCESSES, MEMORY, MODELS, PREDICTIVE ABILITY (TESTING), PROGRAMED INSTRUCTION, TEACHING MACHINES, TIME SHARING.

ED 020 801
ILIKA, JOSEPH
AGE OF ENTRANCE INTO THE FIRST GRADE AS RELATED TO ARITHMETIC ACHIEVEMENT.
LAMAR STATE COLL. OF TECHNOLOGY, BEAUMONT, TEX.
PUB DATE 7 FEB 68
EDRS PRICE MF-$0.25 HC-$0.90 16P.

DESCRIPTORS— *AGE DIFFERENCES, *ARITHMETIC, *CHILD DEVELOPMENT, *LATE SCHOOL ENTRANCE, *PERFORMANCE FACTORS, ABILITY IDENTIFICATION, ACADEMIC ACHIEVEMENT, ACHIEVEMENT RATING, CALIFORNIA ACHIEVEMENT TEST, EARLY ADMISSION, ELEMENTARY SCHOOL MATHEMATICS, ELEMENTARY SCHOOL STUDENTS, GROWTH PATTERNS, PROGRESSIVE ACHIEVEMENT TEST, SEX DIFFERENCES.

ED 020 885
FOLEY, JACK L.
SETS, SUB-SETS AND OPERATIONS.
PUB DATE NOV 67
EDRS PRICE MF-$0.25 HC-$1.95 37P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, *SET THEORY, ESEA TITLE 3, LOW ABILITY STUDENTS, STUDENT ACTIVITIES.

ED 020 886
FOLEY, JACK L.
PER CENT FRACTIONS.
PUB DATE NOV 67
EDRS PRICE MF-$0.25 HC-$2.00 38P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, ESEA TITLE 3, FRACTIONS, LOW ABILITY STUDENTS, STUDENT ACTIVITIES.

ED 020 887
FOLEY, JACK L.
MANEUVERS ON A GEO-BOARD.
PUB DATE NOV 67
EDRS PRICE MF-$0.25 HC-$1.25 23P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, ESEA TITLE 3, GEOMETRY, LOW ABILITY STUDENTS, STUDENT ACTIVITIES, TRIGONOMETRY.

ED 020 888
FOLEY, JACK L.
THE MATH GO-ROUND, A UNIT OF MATHASBORG.
PUB DATE NOV 67
EDRS PRICE MF-$0.25 HC-$1.55 29P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, DIVISION, ESEA TITLE 3, GEOMETRY, LOW ABILITY STUDENTS, MULTIPLICATION, STUDENT ACTIVITIES.

ED 020 889
FOLEY, JACK L.
VOLUME AND SURFACE AREA.
PUB DATE AUG 67
EDRS PRICE MF-$0.25 HC-$1.60 30P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, ESEA TITLE 3, GEOMETRY, LOW ABILITY STUDENTS, STUDENT ACTIVITIES.

ED 020 890
FOLEY, JACK L.
METRIC GEOMETRY LINEAR MEASURE.
PUB DATE AUG 67
EDRS PRICE MF-$0.25 HC-$2.55 49P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, ESEA TITLE 3, GEOMETRY, LOW ABILITY STUDENTS, MEASUREMENT STUDENT ACTIVITIES.

ED 020 891
FOLEY, JACK L.
IDEAS FROM NUMBER THEORY.
PUB DATE AUG 67
EDRS PRICE MF-$0.25 HC-$2.35 45P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, DIVISION, ESEA TITLE 3, LOW ABILITY STUDENTS, MULTIPLICATION, SET THEORY, STUDENT ACTIVITIES.

ED 020 892
FOLEY, JACK L.
METRIC GEOMETRY, CONCEPTS OF AREA MEASURE.
PUB DATE AUG 67
EDRS PRICE MF-$0.25 HC-$1.95 37P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, ESEA TITLE 3, GEOMETRY, LOW ABILITY STUDENTS, MEASUREMENT, STUDENT ACTIVITIES, TRIGONOMETRY.

ED 020 893
FOLEY, JACK L.
DIVISIBILITY TESTS.
PUB DATE AUG 67
EDRS PRICE MF-$0.25 HC-$1.80 34P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS, DIVISION, ESEA TITLE 3, INSTRUCTIONAL MATERIALS, LOW ABILITY STUDENTS, STUDENT ACTIVITIES.

ED 020 894
FOLEY, JACK L.
CURVES, VERTICLES, KNOTS AND SUCH.
PUB DATE AUG 67
EDRS PRICE MF-$0.50 HC-$3.35 65P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, ESEA TITLE 3, LOW ABILITY STUDENTS, STUDENT ACTIVITIES, TOPOLOGY.

ED 020 895
FOLEY, JACK L.
ANGLES, MEASURES.
PUB DATE AUG 67
EDRS PRICE MF-$0.25 HC-$1.85 35P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, ESEA TITLE 3, LOW ABILITY STUDENTS, STUDENT ACTIVITIES, TRIGONOMETRY.

ED 020 896
FOLEY, JACK L.
ACTION WITH WHOLE-NUMBERS.
PUB DATE AUG 67
EDRS PRICE MF-$0.50 HC-$3.05 59P.

DESCRIPTORS— *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, ADDITION, ARITHMETIC, DIVISION, ESEA TITLE 3, LOW ABILITY STUDENTS, MULTIPLICATION, STUDENT ACTIVITIES, SUBTRACTION.

ED 020 897
FOLEY, JACK L.
ACTION WITH FRACTIONS, ADDITION AND SUBTRACTION.
PUB DATE AUG 67
EDRS PRICE MF-$0.25 HC-$1.80 34P.

DESCRIPTORS— *ARITHMETIC, *ELEMENTARY SCHOOL MATHEMATICS, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, ADDITION, ESEA TITLE 3, FRACTIONS, LOW ABILITY STUDENTS, STUDENT ACTIVITIES, SUBTRACTION.

ED 021 027
SUTTON, MACK C. WYKES, MURRAY L.
BASIC MATHEMATICS FOR ELECTRICITY, ELECTRICAL, AND ELECTRONIC CONTROL, UNIT 1, ASSIGNMENTS.
TEXAS UNIV., AUSTIN, DEPT. OF IND. EDUC.
TEXAS EDUCATION AGENCY, AUSTIN, IND. EDUC. DIV.
PUB DATE JUN 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ELECTRICAL OCCUPATIONS, *STUDY GUIDES, *TRADE AND INDUSTRIAL EDUCATION, ADULT VOCATIONAL EDUCATION, INDIVIDUAL INSTRUCTION, PRACTICAL MATHEMATICS.

ED 021 028
SUTTON, MACK C. WYKES, MURRAY L.
BASIC MATHEMATICS FOR ELECTRICITY, ELECTRICAL, AND ELECTRONIC CONTROL, UNIT 1, INSTRUCTOR'S GUIDE.
TEXAS UNIV., AUSTIN, DEPT. OF IND. EDUC.
TEXAS EDUCATION AGENCY, AUSTIN, IND. EDUC. DIV.
PUB DATE SEP 60
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *ANSWER KEYS, *ELECTRICAL OCCUPATIONS, *TEACHING GUIDES, *TRADE AND INDUSTRIAL EDUCATION, ADULT VOCATIONAL EDUCATION, INDIVIDUAL INSTRUCTION, PRACTICAL MATHEMATICS.

# III. SCIENCE AND MATHEMATICS EDUCATION

ED 013 223
REGULATIONS AND SYLLABUSES, 1968.
ASSOCIATED EXAMINING BOARD, ALDERSHOT, HAMPSHIRE
PUB DATE 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *EVALUATION, *SECONDARY EDUCATION, *STUDENT EVALUATION, ANATOMY, ASSOCIATED EXAMINING BOARD, BIOLOGY, BOTANY, CHEMISTRY, EARTH SCIENCE, ELECTRONICS, ENGLAND, ENGLISH, GENERAL SCIENCE, GEOLOGY, HISTORY, INDUSTRIAL ARTS, LATIN, MATHEMATICS, MODERN LANGUAGES, MUSIC, PHYSICS, PHYSIOLOGY, SECONDARY SCHOOL MATHEMATICS, SECONDARY SCHOOL SCIENCE, ZOOLOGY.

ED 013 224
LEVINE, MILTON AND OTHERS
AMERICAN SCIENCE MANPOWER, 1964—A REPORT OF THE NATIONAL REGISTER OF SCIENTIFIC AND TECHNICAL PERSONNEL.
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C. F
REPORT NUMBER NSF-66-29
PUB DATE 66
EDRS PRICE MF-$1.00 HC-$11.40 226P.

DESCRIPTORS— *HUMAN RESOURCES, *INDIVIDUAL CHARACTERISTICS, *OCCUPATIONAL INFORMATION, *SCIENTIFIC MANPOWER, *SURVEYS, AGRICULTURE, BIOLOGY, CHEMISTRY, COLLEGE SCIENCE, EARTH SCIENCE, ECONOMICS, EDUCATIONAL BACKGROUND, EMPLOYMENT EXPERIENCE, FEMALES, GEOGRAPHIC DISTRIBUTION, LINGUISTICS, MALES, MATHEMATICS, NATIONAL SCIENCE FOUNDATION, PERSONNEL DATA, PHYSICS, PSYCHOLOGY, SALARIES, SCIENCE TEACHERS, SCIENTISTS.

ED 014 419
LOVELL, K.
THE GROWTH OF BASIC MATHEMATICAL AND SCIENTIFIC CONCEPTS IN CHILDREN.
PUB DATE 61
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *LEARNING THEORIES, *TEXTBOOKS, EDUCATIONAL PSYCHOLOGY, ELEMENTARY SCHOOL MATHEMATICS, INTELLECTUAL DEVELOPMENT, MATHEMATICS, MATTER, MEASUREMENT, SPACE, TIME, WEIGHT.

ED 014 433 24
MERMELSTEIN, EGON AND OTHERS
THE EFFECT OF VARIOUS TRAINING TECHNIQUES ON THE ACQUISITION OF THE CONCEPT OF CONSERVATION OF SUBSTANCE. FINAL REPORT.
HOFSTRA UNIV., HEMPSTEAD, N.Y.
REPORT NUMBER BR-6-8300
PUB DATE FEB 67
CONTRACT OEC-6-8300-2-12-1
EDRS PRICE MF-$0.25 HC-$2.10 40P.

DESCRIPTORS— *COGNITIVE DEVELOPMENT, *COGNITIVE PROCESSES, *CONCEPT FORMATION, *ELEMENTARY SCHOOL MATHEMATICS, *ELEMENTARY SCHOOL SCIENCE, *KINDERGARTEN, *LEARNING THEORIES, MATHEMATICS, PIAGET.

ED 014 438
LOCKARD, J. DAVID AND OTHERS
REPORT OF THE INTERNATIONAL CLEARINGHOUSE ON SCIENCE AND MATHEMATICS CURRICULAR DEVELOPMENTS, 1967.
MARYLAND UNIV., COLLEGE PARK, SCIENCE TEACHING CTR
AMERICAN ASSN. FOR THE ADVANCEMENT OF SCIENCE
PUB DATE 67
EDRS PRICE MF-$1.75 HC-$22.50 448P.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *INTERNATIONAL EDUCATION, *MATHEMATICS EDUCATION, *SCIENCE EDUCATION, *SECONDARY SCHOOL SCIENCE, BIBLIOGRAPHIES, BIOLOGY, CHEMISTRY, EARTH SCIENCE, GENERAL SCIENCE, INSTRUCTIONAL MATERIALS, NATIONAL SCIENCE FOUNDATION, PHYSICAL SCIENCES, PHYSICS, UNESCO.

ED 015 877
SCIENCE EDUCATION INFORMATION REPORT, BIBLIOGRAPHY 1, INSTRUCTIONAL PROCEDURES. GENERAL BIBLIOGRAPHY SERIES.
OHIO STATE UNIV., COLUMBUS, ERIC INFO. ANAL. CTR.
PUB DATE DEC 67
EDRS PRICE MF-$0.50 HC-$3.30 64P.

GPO 812-855-2

DESCRIPTORS— *ACADEMIC ACHIEVEMENT, *AUDIOVISUAL AIDS, *BIOLOGY, *CHEMISTRY, *COLLEGE SCIENCE, *CRITICAL THINKING, *ELEMENTARY SCHOOL SCIENCE, *FILMS, *GENERAL EDUCATION, *INSTRUCTION, *PHYSICAL SCIENCES, *PHYSICS, *PROBLEM SOLVING, *PROGRAMED INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, *TEACHING METHODS, EARTH SCIENCE, GENERAL SCIENCE, MATHEMATICS EDUCATION, SCIENCE ACTIVITIES.

ED 015 878
SCIENCE EDUCATION INFORMATION REPORT, BIBLIOGRAPHY 5, ACHIEVEMENT. GENERAL BIBLIOGRAPHY SERIES.
OHIO STATE UNIV., COLUMBUS, ERIC INFO. ANAL. CTR.
PUB DATE DEC 67
EDRS PRICE MF-$0.25 HC-$1.80 34P.

DESCRIPTORS— *ABILITY GROUPING, *ACADEMIC ACHIEVEMENT, *BIOLOGY, *CHEMISTRY, *COLLEGE SCIENCE, *CRITICAL THINKING, *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *INSTRUCTION, *PHYSICS, *SECONDARY SCHOOL SCIENCE, ABLE STUDENTS, CONCEPT FORMATION, GENERAL SCIENCE, MATHEMATICS EDUCATION, PHYSICAL SCIENCES, STUDENT INTERESTS, TEACHING METHODS.

ED 015 879
SCIENCE EDUCATION INFORMATION REPORT, BIBLIOGRAPHY 2, TEACHER EDUCATION. GENERAL BIBLIOGRAPHY SERIES.
OHIO STATE UNIV., COLUMBUS, ERIC INFO. ANAL. CTR.
PUB DATE DEC 67
EDRS PRICE MF-$0.25 HC-$2.35 45P.

DESCRIPTORS— *BIOLOGY, *CHEMISTRY, *COLLEGE SCIENCE, *CURRICULUM DEVELOPMENT,*EARTH SCIENCE,*EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *PHYSICS, *PROGRAM DESCRIPTIONS, *PROGRAM EVALUATION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, GRADUATE STUDY, MATHEMATICS EDUCATION, METHODS COURSES, PHYSICAL SCIENCES, TEACHER CERTIFICATION, TEACHER CHARACTERISTICS.

ED 015 880
SCIENCE EDUCATION INFORMATION REPORT, BIBLIOGRAPHY 3, EQUIPMENT AND MATERIALS. GENERAL BIBLIOGRAPHY SERIES.
OHIO STATE UNIV., COLUMBUS, ERIC INFO. ANAL., CTR.
PUB DATE DEC 67
EDRS PRICE MF-$0.50 HC-$3.15 61P.

DESCRIPTORS— *AUDIOVISUAL AIDS, *BIOLOGY, *CHEMISTRY, *COLLEGE SCIENCE, *EARTH SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *FILMS, *LABORATORY EQUIPMENT, *LABORATORY MANUALS, *PHYSICS, *PROGRAMED INSTRUCTION, *SCIENCE ACTIVITIES, *SCIENCE EQUIPMENT, *SCIENCE MATERIALS, *SECONDARY SCHOOL SCIENCE, *TEXTBOOKS, LABORATORY SAFETY, MATHEMATICS EDUCATION, OVERHEAD PROJECTORS, PHYSICAL SCIENCES.

ED 016 610
FOOKS, JOYCE LANE
THE COLLEGE COMMISSIONS.
PUB DATE JUL 67
EDRS PRICE MF-$0.25 HC-$1.20 22P.

DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM DEVELOPMENT, AGRICULTURE, BIOLOGY, CHEMISTRY, COLLEGE SCIENCE COMMISSIONS, ENGINEERING, GEOGRAPHY, GEOLOGY,MATHEMATICS,PHYSICS, UNDERGRADUATE STUDY.

ED 016 628
MALINOWSKY, HAROLD ROBERT
SCIENCE AND ENGINEERING REFERENCE SOURCES, A GUIDE FOR STUDENTS AND LIBRARIANS.
KANSAS UNIV., LAWRENCE
PUB DATE 67
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIBLIOGRAPHIES, *ENGINEERING, *INFORMATION SOURCES, *INSTRUCTIONAL MATERIALS, *MATHEMATICS, *SCIENCES, LIBRARY MATERIALS, REFERENCE BOOKS, REFERENCE MATERIALS.

ED 016 634
THE MAN MADE WORLD, TEACHER'S MANUAL.
COMMISSION ON ENGINEERING EDUC., WASHINGTON, D.C.
PUB DATE 67
EDRS PRICE MF-$1.50 HC-$20.05 399P.

DESCRIPTORS— *COMPUTERS, *CURRICULUM, *CURRICULUM DEVELOPMENT, *ENGINEERING, *MATHEMATICS, *PHYSICAL SCIENCES, *SECONDARY SCHOOL SCIENCE, *TEACHING GUIDES, *TECHNOLOGY, ALGEBRA, BIBLIOGRAPHIES, EDUCATIONAL OBJECTIVES, SCIENCE ACTIVITIES.

ED 016 635
THE MAN MADE WORLD. LABORATORY MANUAL.
COMMISSION ON ENGINEERING EDUC., WASHINGTON, D.C.
PUB DATE 67
EDRS PRICE MF-$0.75 HC-$6.70 132P.

DESCRIPTORS— *COMPUTERS, *CURRICULUM DEVELOPMENT, *INSTRUCTIONAL MATERIALS, *LABORATORY MANUALS, *MATHEMATICS, *PHYSICAL SCIENCES, *SCIENCE ACTIVITIES, *SECONDARY SCHOOL SCIENCE, *TECHNOLOGY.

ED 017 462
DURST, LINCOLN K.
RECOMMENDATIONS ON THE UNDERGRADUATE MATHEMATICS PROGRAM FOR ENGINEERS AND PHYSICISTS.
COMMITTEE ON THE UNDERGRADUATE PROGRAM IN MATH.
PUB DATE JAN 67
EDRS PRICE MF-$0.25 HC-$2.70 52P.

DESCRIPTORS— *COLLEGE MATHEMATICS, *CURRICULUM DEVELOPMENT, *ENGINEERING, *MATHEMATICS, *PHYSICS, *UNDERGRADUATE STUDY, CURRICULUM, HIGHER EDUCATION, INSTRUCTION, MATHEMATICAL ASSOCIATION OF AMERICA, NATIONAL SCIENCE FOUNDATION.

ED 017 475
RAZIK, TAHER A.
BIBLIOGRAPHY OF CREATIVITY STUDIES AND RELATED AREAS.
STATE UNIV. OF N.Y., BUFFALO
PUB DATE 65
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *BIBLIOGRAPHIES, *CREATIVITY, *DISCOVERY PROCESSES, *ENVIRONMENTAL INFLUENCES, *HEREDITY, *MOTIVATION, *PROBLEM SOLVING, *RESEARCH METHODOLOGY, *SCIENCES, *TESTS, ABILITY IDENTIFICATION, ACADEMIC ACHIEVEMENT, ELEMENTARY EDUCATION, HIGHER EDUCATION, INSTRUCTION, LEARNING, MATHEMATICS, SECONDARY EDUCATION, SOCIOECONOMIC INFLUENCES.

ED 018 239
GOODMAN, ARNOLD F. AND OTHERS
DOD USER-NEEDS STUDY, PHASE II—FLOW OF SCIENTIFIC AND TECHNICAL INFORMATION WITHIN THE DEFENSE INDUSTRY. FINAL REPORT. VOLUME II, A. TECHNICAL DESCRIPTION, B. TECHNICAL APPENDICES. NORTH AMERICAN AVIATION INC., ANAHEIM, CALIF.
REPORT NUMBER C6-2422/030-VOL-2
PUB DATE 30 NOV 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *INFORMATION DISSEMINATION, *INFORMATION UTILIZATION, *INTERVIEWS, *STATISTICAL ANALYSIS, *USE STUDIES, COMMUNICATION (THOUGHT TRANSFER), COMPUTER PROGRAMS, CORRELATION, DATA COLLECTION, DEPARTMENT OF DEFENSE (DOD), DIFFUSION, ENGINEERS, INFORMATION NEEDS, INFORMATION SOURCES, INPUT OUTPUT ANALYSIS, MANUALS, MATHEMATICAL MODELS, QUESTIONNAIRES, SCIENTIFIC PERSONNEL, SURVEYS.

ED 018 240
GOODMAN, ARNOLD F. AND OTHERS
DOD USER-NEEDS STUDY, PHASE II—FLOW OF SCIENTIFIC AND TECHNICAL INFORMATION WITHIN THE DEFENSE INDUSTRY. FINAL REPORT. VOLUME III, A. FREQUENCY DISTRIBUTIONS AND CORRELATION, B. RELATIONSHIP AND COMPARISON.
NORTH AMERICAN AVIATION INC., ANAHEIM, CALIF.
REPORT NUMBER C6-2442/030-VOL-3
PUB DATE 30 NOV 66
DOCUMENT NOT AVAILABLE FROM EDRS.

DESCRIPTORS— *MATHEMATICAL MODELS, *STATISTICAL ANALYSIS, *USE STUDIES, COMMUNICATION (THOUGHT TRANSFER), COMPARATIVE STATISTICS, CORRELATION, DATA ANALYSIS, DEPARTMENT OF DEFENSE (DOD), ENGINEERS, INFORMATION DISSEMINATION, INFORMATION NEEDS, INFORMATION UTILIZATION, INPUT OUTPUT ANALYSIS, MEASUREMENT TECHNIQUES, PSYCHOMETRICS, SCIENTIFIC PERSONNEL, STATISTICAL DATA, SURVEYS.

ED 018 373
KING, L.C.
THE UNDERGRADUATE MATHEMATICS PROGRAM OF STUDENTS IN CHEMISTRY. A REPORT OF A CONFERENCE SPONSORED JOINTLY BY THE

ADVISORY COUNCIL ON COLLEGE CHEMISTRY AND THE COMMITTEE ON THE UNDERGRADUATE PROGRAM IN MATHEMATICS.
ADVISORY COUNCIL ON COLL., CHEMISTRY
REPORT NUMBER PUB NO-26
COMMITTEE ON THE UNDERGRADUATE PROGRAM IN MATH.
PUB DATE JUN 67
EDRS PRICE MF-$0.25 HC-$0.70 12P.

DESCRIPTORS— *CHEMISTRY, *COLLEGE SCIENCE, *CONFERENCE REPORTS, *COURSE CONTENT, *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *MATHEMATICS, *PHYSICAL SCIENCES, *UNDERGRADUATE STUDY, ADVISORY COUNCIL ON COLLEGE CHEMISTRY, ALGEBRA, CALCULUS, COMMITTEE ON THE UNDERGRADUATE PROGRAM IN MATHEMATICS.

ED 018 397
JAUSS, RUSSELL
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PUB DATE SEP 67
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DESCRIPTORS— *CURRICULUM, *CURRICULUM DEVELOPMENT, *DIRECTORIES, *ELEMENTARY SCHOOL MATHEMATICS, *ELEMENTARY SCHOOL SCIENCE, *FEDERAL AID, *FEDERAL PROGRAMS, *FOUNDATION PROGRAMS, *SCIENCE COURSE IMPROVEMENT PROJECT, *SECONDARY SCHOOL MATHEMATICS, *SECONDARY SCHOOL SCIENCE, COOPERATIVE COLLEGE SCHOOL SCIENCE PROGRAM, INSTRUCTION, MATHEMATICS, NATIONAL SCIENCE FOUNDATION, TEACHER EDUCATION.

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PUB DATE 67
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DESCRIPTORS— *CONFERENCE REPORTS, *CURRICULUM, *INTERNATIONAL EDUCATION, *MATHEMATICS EDUCATION, *SCIENCE EDUCATION, *TEACHER EDUCATION, *TECHNICAL EDUCATION, BIOLOGY, CHEMISTRY, DEVELOPING NATIONS, FORD FOUNDATION, GEOLOGY, INTERNATIONAL

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PUB DATE MAY 68
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DESCRIPTORS— *COLLEGE SCIENCE, *CURRICULUM DEVELOPMENT, *EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *INTERNATIONAL EDUCATION, *MATHEMATICS EDUCATION, *SCIENCE EDUCATION, *SECONDARY SCHOOL SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, ANTHROPOLOGY, BIBLIOGRAPHIES, BIOLOGY, CHEMISTRY, EARTH SCIENCE, GENERAL SCIENCE, INSTRUCTIONAL MATERIALS, PHYSICAL SCIENCES, PHYSICS, SCIENCE COURSE IMPROVEMENT PROJECT.

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DESCRIPTORS— *COGNITIVE DEVELOPMENT, *JUNIOR HIGH SCHOOLS, *LEARNING, *MATHEMATICS, *PROBABILITY, BRIM SCALE, CONCEPT FORMATION, MATHEMATICS EDUCATION, SCIENCE EDUCATION.

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DESCRIPTORS— *CONCEPT FORMATION, *ELEMENTARY EDUCATION, *INSTRUCTION, *MATHEMATICS, *TEACHING METHODS, ARITHMETIC, CLOSED CIRCUIT TELEVISION, COGNITIVE DEVELOPMENT, COOPERATIVE PRIMARY TEST IN MATHEMATICS, EDUCATIONAL PROGRAMS, GRADE 1,GRADE 4,GRADE 5,GRADE 6,INDIVIDUAL INSTRUCTION, LEARNING, RESEARCH AND DEVELOPMENT CENTERS, SCIENTIFIC CONCEPTS, TEACHING PROCEDURES, WISCONSIN RESEARCH AND DEVELOPMENT CTR.

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